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NASA-CR 160,828
VOLUME 1 OF 6

RESULTS OF HEAT TRANSFER TESTS IN THE
ARNOLD ENGINEERING DEVELOPMENT CENTER -
VON KARMAN FACILITY TUNNELS A AND B UTILIZING
SPACE SHUTTLE ORBITER THIN SKIN THERMOCOUPLE MODELS
56-0, 60-0 AND 83-0

TESTS: OH-84B, OH-105, IH-102

SPACE SHUTTLE AEROTHERMODYNAMIC DATA REPORT

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Data Management Services

HUNTSVILLE ELECTRONICS DIVISION



CHRYSLER
CORPORATION

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PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Report

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Tests OH84B, OH-105, IH102 (Volume 1 of 6)
NUMBER: DMS-DR-2464 DATE: May 1981 BRANCH: Chrysler/DMS
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REASON FOR CHANGE:

Revise Yo geometry label for thermocouples 87A, 88A and 89A as follows:

Thermocouple No.	X0	Yo	
		Original	Revised
87A	9.799	1.709	1.101
88A	9.705	1.101	0.672
89A	9.717	0.672	1.709

Data replacements have been generated and a publication change effected to Table V for all volumes and for data tabulations for all affected volumes.

This page is an errata sheet and is to remain a permanent part of DR-2464. Replace page 85 of the text material.

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PAGE 1 OF 1

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May 1981

DMS-DR 2464
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56-0, 60-0 AND 83-0

TESTS: OH-84B, OH-105, IH-102

by

J. W. Foust
Rockwell International
Space Transportation System Development and Production Division

Prepared under NASA Contract Number NAS9-16283

by

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New Orleans, La. 70189

for

Engineering Analysis Division
Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: V41A-67 (Tunnel A), V41B-67 (Tunnel B)
NASA Series Number: IH102 (Tunnel A), OH84B, OH105 (Tunnel B)
Model Number: 56-0, 60-OTS, 83-0
Test Dates: May 2 thru May 23, 1979
Occupancy Hours: OH84B: 58.3
OH105: 12.8
IH102: 39.6
TOTAL: 110.7

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RESULTS OF HEAT TRANSFER TESTS IN THE
ARNOLD ENGINEERING DEVELOPMENT CENTER -
VON KARMAN FACILITY TUNNELS A AND B UTILIZING
SPACE SHUTTLE ORBITER THIN SKIN THERMOCOUPLE MODELS
56-0, 60-0 AND 83-0

TESTS: OH-84B, OH-105, IH-102

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ABSTRACT

A series of thin-skin thermocouple heat transfer tests were conducted using scaled Space Shuttle models in the Arnold Engineering Development Center, von Karman facility (AEDC-VKF) Supersonic Wind Tunnel A and Hypersonic Wind Tunnel B to determine aerodynamic heating on the Space Shuttle orbiter where data extrapolation or analytical predictions were not feasible and where previous data did not exist. Secondary test objectives were to obtain limited yaw data and to obtain contingency abort trajectory data. The test series consisted of NASA tests OH84B and OH105 in Tunnel B and IH102 in Tunnel A with Space Shuttle orbiter models 56-0 (0.0175 scale), 60-0 (0.0175 scale), and 83-0 (0.040 scale) configured into ten different model installations. Included in the ten installations tested were each orbiter model and the two 0.0175 scale models integrated with the 0.0175 scale external tank and solid rocket boosters.

Data were recorded at Mach numbers 3 and 4 in Tunnel A with simulated Reynolds numbers of $1.0 \times 10^6/\text{ft}$ to $4.0 \times 10^6/\text{ft}$ and at Mach 8 in Tunnel B with simulated Reynolds numbers of $0.5 \times 10^6/\text{ft}$ to $3.7 \times 10^6/\text{ft}$. Model angle of attack varied from -40 to $+40$ degrees. Model yaw angle varied from -15 to $+10$ degrees. The high negative angle of attack was a contingency abort trajectory simulation.

All objectives of the test series were fulfilled. Six hundred and eight (608) data runs were obtained to support the test objectives, 383 for test OH84B, 78 for test OH105, and 147 for test IH102.

The model configurations, instrumentation, test procedures, and data reduction are described in this report.

Tabulated heat transfer data are presented in the Appendix. Volumes 1-4 contain OH84B tabulations; likewise, Volume 5 contains OH105, and Volume 6 contains IH102.

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INTRODUCTION

Aerodynamic heating can be complex during the Space Shuttle flight cycle due to the exposure of the somewhat conventional airplane-shaped orbiter to the launch and reentry environments. A test series was conducted in the Arnold Engineering Development Center, von Karman Facility 40-inch Supersonic Wind Tunnel A and 50-inch Hypersonic Wind Tunnel B during the period May 2-23, 1979 to obtain heat transfer data in regions of the Space Shuttle orbiter where data extrapolation or analytical prediction are not feasible and where previous data did not exist. Additional objectives were to obtain limited yaw data and to obtain contingency abort trajectory data. The test series combined three NASA tests, OH84B, OH105, and IH102, using three Space Shuttle orbiter scaled models, 56-0 (0.0175 scale), 60-0 (0.0175 scale), and 83-0 (0.040 scale), installed in ten different configurations.

Data were recorded from the orbiter models at Mach numbers 3 and 4 in Tunnel A for nominal Reynolds numbers ranging from $1.0 \times 10^6/\text{ft}$ to $4.0 \times 10^6/\text{ft}$ and at Mach number 8 in Tunnel B for nominal Reynolds numbers ranging from $0.5 \times 10^6/\text{ft}$ to $3.7 \times 10^6/\text{ft}$. Model angle of attack ranged from -40 to +40 degrees with model angle of sideslip varying from -15 to +10 degrees.

Results of the test series are presented in this report.

NOMENCLATURE

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
a_1, a_2, a_3		Constants used to calculate R
α	ALPHA	Model angle of attack, degrees
AEDC		Arnold Engineering Development Center
b		Model skin thickness, inches
β	BETA	Model sideslip angle, degrees
Con.Set		Set of thermocouples recorded together
COORD1		First thermocouple location coordinate
COORD2		Second thermocouple location coordinate
Cp		Model skin material specific heat, Btu/lbm-°R
C.R.		Center of Rotation
DTWDT	DTWDT	Time rate of change of wall temperature, °R/sec.
δ_{BF}	BDFLAP	Body flap deflection angle, degrees
δ_e	ELEVON	Elevon deflection angle, degrees
δ_{SB}	SPDBRK	Speedbrake deflection angle, degrees
ϵ		Incidence angle of local model surface, degrees
HREF	HREF HREF-FR	Reference heat transfer coefficient based on Fay and Riddell theory, Btu/ft ² - sec - °R
H(RTO)	H(RTO)	Heat transfer coefficient based on RTO, Btu/ft ² - sec - °R
	H(TAW)	Heat transfer coefficient based on TAW, Btu/ft ² - sec - °R

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
L		Reference length, inches
MACH NO	MACH	Mach number
μ	MU	Freestream viscosity, lbf-sec/ft ²
MUO		Viscosity based on stagnation temperature, lbf-sec/ft ²
PO	PO	Tunnel stilling chamber pressure, psia
P-INF	P	Freestream static pressure
PO2		Stagnation pressure downstream of normal shock, psia
q Q-INF	Q-INF Q	Tunnel freestream dynamic pressure, psi
	QDOT	Heat transfer rate, Btu/ft ² -sec
RE/FT RN	RN/L	Reynolds number per unit length
R	TAW/TO	Analytical temperature ratio
RTO		Tunnel stilling chamber pressure adjusted for theoretical recovery factor, °R
RHO-INF	RHO	Free stream density, lbm/ft ³ .
STFR	STN NO	Stanton number based on HREF
SW.Pos		Switch position
t _i		Time when initial model wall temperature was recorded before model injection, seconds
t		Time from start of model injection cycle, seconds

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
TAW	TAW	Computed adiabatic wall temperature, °R
T/C	T/CNO.	Thermocouple number
	T	Tunnel freestream static temperature, °R
TO	TO	Tunnel stilling chamber temperature, °R
TW		Model wall temperature at midpoint of data interval, °R
TW _i		Initial model wall temperature before injection, °R
V-INF	V	Tunnel freestream velocity, ft/sec
VKF		Von Karmen Facility
w		Model skin material density, lbm/ft ³
	WINDOW	Window number where specific thermocouples are located
X	XO MS	Model scale axial coordinate from model nose or leading edge of wing or vertical tail, inches
X _o		Model scale axial coordinate from a point 235 inches (FS) ahead of the orbiter nose, inches
X/C	XV/CV	Percent of vertical tail chord
X/L		Thermocouple axial location from model nose as a ratio to model length
X _n		Model scale axial coordinate of nozzle, inches
Y	YO MS	Model scale lateral coordinate, inches
Y _o		Full scale lateral coordinate, inches

NOMENCLATURE (Concluded)

<u>SYMBOL</u>	<u>MNEMONIC</u>	<u>DEFINITION</u>
Z	ZO MS	Model scale vertical coordinate, inches
Zo		Full scale vertical coordinate, inches
Z/B	ZV/BV	Percent of vertical tail span
2Y/B	2Y/B	Ratio of thermocouple distance from model centerline to model semispan
ϕ	PHI	Radial angle of thermocouple in model coordinates, degrees
ϕ_n		Radial angle of thermocouple on nozzle, degrees

REMARKS

In presenting heat-transfer coefficient results, it is convenient to use reference coefficients to normalize the data. Equilibrium stagnation point values derived from the work of Fay and Riddell (Reference 6) were used to normalize the data obtained in this test. These reference coefficients are given by:

$$H_{REF} = \frac{8.17173(P_{O2})^{0.5} (\mu_{O2})^{0.4} \left[1 - \frac{(P-Inf)}{P_{O2}} \right]^{0.25} \left[0.2235 + (1.35 \times 10^{-5})(T_O + 560) \right]}{(R_N)^{0.5} (T_O)^{0.15}}$$

$$STFR = \frac{H_{REF}}{(RHO-Inf) (V-Inf) \left[0.2235 + 1.35 \times 10^{-5} (T_O + 560) \right]}$$

CONFIGURATIONS INVESTIGATED

Three Space Shuttle orbiter models were used to obtain the thin-skin thermocouple data for this test. Two of the test articles were 0.0175 scale models of the full orbiter and were designated as the 60-Ø and 56-Ø models. The third model was a 0.04 scale, 50 percent forebody model of the orbiter, and was identified as the 83-Ø model. All of the models were supplied by Rockwell International.

The 60-Ø model was a 0.0175 scale thin-skin thermocouple model of the Rockwell International Vehicle 5 configuration. The model was constructed of 17-4 PH stainless steel with a nominal skin thickness of 0.030 in. at the instrumented areas. All thermocouples were spot welded to the thin-skin inner surface.

A photograph of the 60-Ø model injected in the Tunnel B test section is shown in Figure 1. The basic dimensions and coordinate definitions for the 0.0175 scale model are shown in the sketch presented in Figure 2. The deflection angles of the speedbrake, body flap and elevons were varied during these tests and recorded on the tabulated data.

The 56-Ø model was a 0.0175 scale phase change paint model with the same external contour as the 60-Ø model except for the vertical tail. The vertical tail used was a slab tail of extended span used for previous oil flow tests to determine flow orientation at the leading edge. The pilot side

CONFIGURATIONS INVESTIGATED (Continued)

(left) of the fuselage has been replaced with a thin-skin thermocouple insert contoured to the vehicle lines. This insert was constructed of 17-4 PH stainless steel with a nominal skin thickness of 0.020 in. at the thermocouple locations. A photograph of the 56-Ø model injected in Tunnel A is shown in Figure 3. The dimensions and coordinate system presented in Figure 2 also apply to the 0.0175 scale 56-Ø model.

The 83-Ø model was a 0.04 scale model of the forward 50 percent of the orbiter. This model was also constructed of 17-4 PH stainless steel with a nominal skin thickness of 0.030 in. A photograph of the 83-Ø model injected in Tunnel B is shown in Figure 4. The coordinate system and basic dimensions for the 83-Ø model are presented in Figure 5.

Each of the orbiter models was installed in more than one configuration to fulfill the test requirements of Mach number (Tunnel selection), angle of attack, and yaw. Both the 56-Ø and the 60-Ø models were tested as the orbiter alone and were also mated with the external tank and both solid rocket boosters, designated as the OTS configuration. Installation sketches of each of the ten configurations are presented in Figure 6. The installations illustrated in Figures 6c and 6d each represent two configurations by interchanging the 56-Ø and 60-Ø models. Each installation was identified with a configuration code that is listed in Table 4.

CONFIGURATIONS INVESTIGATED (Continued)

Model Nomenclature

Nomenclature used to describe the various components of the three models used for these tests are:

Model 56-0 Orbiter (Vehicle 5 Configuration, VL70-00140C Lines)

B ₆₂	Fuselage
C ₁₂	Canopy
E ₅₂	Elevon
F ₁₀	Body Flap
M ₁₆	OMS Pod
V ₃₀	Vertical Tail
W ₁₂₇	Wing

Model 60-0 Orbiter (Vehicle 5 Configuration, VL70-00140C Lines)

B ₆₂	Fuselage
C ₁₂	Canopy
E ₅₂	Elevon
F ₁₀	Body Flap
M ₁₆	OMS Pods
R ₁₈	Rudder
V ₈	Vertical Tail
W ₁₁₆	Wing

CONFIGURATIONS INVESTIGATED (Concluded)

Model 60-0 External Tank and SRB's (Vehicle 5 Configuration, VC72-000002F Shuttle Configuration Control)

T ₃₈	External Tank (Spike Nose), VC78-000002E Lines
S ₂₆	Solid Rocket Booster, VC77-000002G and VC77-000003F Lines

Model 83-0 Orbiter (VL70-000140C Lines)

B ₆₀	Fuselage
C ₁₀	Canopy

Full scale and model scale dimensional data for the various components of the three models can be found in Table III.

Further model description, including some model drawings, can be found in References 1-3.

INSTRUMENTATION

Test Conditions

Tunnel A stilling chamber pressure was measured with a 15-, 60-, 150-, or a 300-psid transducer referenced to a near vacuum. Based on periodic comparisons with secondary standards, the accuracy (a bandwidth which includes 95 percent of the residuals, i.e. 2σ deviation) of these transducers is estimated to be within ± 0.2 percent of pressure or ± 0.015 psi, whichever is greater. Stilling chamber temperature was measured with a copper-constantan thermocouple with an accuracy of $\pm 3^\circ\text{F}$.

Tunnel B stilling chamber pressure was measured with a 200- or 1000-psid transducer referenced to a near vacuum. Based on periodic comparisons with secondary standards, the accuracy of the transducers is estimated to be within ± 0.25 percent of pressure or ± 0.3 psi, whichever is greater for the 200-psid range and ± 0.25 percent of pressure or ± 0.8 psi, whichever is greater for the 1000-psid range. Stilling chamber temperature measurements were made with Chromel[®]-Alumel[®] thermocouples which have an uncertainty of $\pm(1.5\text{F} + 0.375 \text{ percent of reading in } ^\circ\text{F})$.

Test Data

The 60-Ø model instrumentation consisted of 600 thirty gauge iron-constantan and chromel-constantan thermocouples. Thermocouple locations for this model are illustrated in Figure 7; the dimensional locations and

INSTRUMENTATION (Continued)

skin thickness are listed in Table V. The thermocouples identified by a number only are iron-constantan. The thermocouples identified by a number followed by the letter A or C are chromel-constantan. The letter A designates a new thermocouple location added specifically for this test. The letter C designates the location of a previously existing thermocouple which has been repaired with chromel-constantan wire.

The 56-Ø model instrumentation consisted of 80 thirty gauge chromel-constantan thermocouples located on the thin-skin insert. The thermocouple locations for this model are illustrated in Figure 8. The dimensional locations and skin thicknesses are listed in Table VI.

The 83-Ø model was instrumented with 482 thirty gauge chromel-constantan thermocouples as illustrated in Figure 9. The dimensional locations and skin thicknesses for the thermocouples on this model are listed in Table VII.

Data from a maximum of 97 thermocouples in Tunnel B and 96 thermocouples in Tunnel A could be recorded during each tunnel injection. Seventeen sets of thermocouples were required to accommodate the large number of thermocouples on this test. These sets are called Constant Sets in Table II. A listing of the seventeen Constant Sets is given in Table VIII. This listing includes all of the thermocouples that were installed for the test. Some of the listed thermocouples were determined

INSTRUMENTATION (Concluded)

to be inoperative and these have been deleted from the tabulated data. A total of three Constant Sets could be connected at one time. A three position selector switch was used to select the desired Constant Set for each injection. The last digit of the Constant Set number usually indicates the selector switch position number. The specific Constant Sets that were connected for each model configuration are listed in Table IV.

TEST FACILITY DESCRIPTION

The von Karmen Gas Dynamics Facility (VKF) consists of multiple wind tunnels, ranges and chambers and is located within the Arnold Engineering Development Center (AEDC) in Tullahoma, Tennessee. The supersonic Tunnel A and hypersonic Tunnel B are part of this complex.

Tunnels A and B (Figures 10 and 11) are continuous, closed-circuit, variable density wind tunnels. Tunnel A has an automatically driven flexible-plate-type nozzle and a 40- by 40-in. test section. The tunnel can be operated at Mach numbers from 1.5 to 6 at maximum stagnation pressures from 29 to 200 psia, respectively, and stagnation temperatures up to 750°R at Mach number 6. Minimum operating pressures range from about one-tenth to one-twentieth of the maximum at each Mach number.

Tunnel B has a 50-in.-diam test section and two interchangeable axisymmetric contoured nozzles to provide Mach numbers of 6 and 8. The tunnel can be operated continuously over a range of pressure levels from 20 to 300 psia at Mach number 6, and 50 to 900 psia at Mach number 8, with air supplied by the VKF main compressor plant. Stagnation temperatures sufficient to avoid air liquefaction in the test section (up to 1350°R) are obtained through the use of a natural gas fired combustion heater. The entire tunnel (throat, nozzle, test section, and diffuser) is cooled by integral, external water jackets. Each tunnel is equipped with a model injection system which allows removal of the model from the test section

TEST FACILITY DESCRIPTION (Concluded)

while the tunnel remains in operation. A description of the tunnels may be found in Reference 4.

TEST PROCEDURES

The test was conducted at a nominal Mach number of 8 in Tunnel B and nominal Mach numbers of 3 and 4 in Tunnel A. A summary of the specific test conditions is given in Table I. A more detailed test summary showing all configurations tested and the variables for each is presented in Table II.

In the VKF continuous flow wind tunnels (A and B), the model is mounted on a sting support mechanism in an installation tank directly underneath the tunnel test section. The tank is separated from the tunnel by a pair of fairing doors and a safety door. When closed, the fairing doors, except for a slot for the pitch sector, cover the opening to the tank, and the safety door seals the tunnel from the tank area. After the model is prepared for a data run, the personnel access door to the installation tank is closed, the tank is vented to the tunnel flow, the safety and fairing doors are closed. After the data are obtained, the model is retracted into the tank, and the sequence is reversed with the tank being vented to atmosphere to allow access to the model in preparation for the next run, if necessary. The sequence is repeated for each configuration change.

The initial step prior to recording the test data in each tunnel was to cool the model uniformly to approximately 80°F with high pressure air. Once the cooling cycle was complete, the desired model attitude was

TEST PROCEDURES (Concluded)

established in the tank prior to injection. With the desired tunnel free stream conditions established, the model was then injected into the tunnel. At lift-off, the initial temperature, TW_i , for each thermocouple on the selected Constant Set was recorded. In Tunnel A, the data acquisition sequence was started prior to the model reaching the airstream. When the model reached tunnel centerline, it was translated to the forward test section to clear an area of tank induced shock impingement. The data acquisition sequence continued until the model reached the full forward position, approximately 8 seconds after lift-off. In Tunnel B, the model was injected directly into the test section. Therefore, the data acquisition sequence was initiated at lift-off and continued for approximately 3 seconds after the model reached the tunnel centerline. After each injection the model was retracted, and the cycle was repeated to cool the model to an isothermal state.

A Beckman[®] 210 analog-to-digital converter was used in conjunction with a Digital Equipment Corp.[®] (DEC) PDP-11 computer and a DEC-10 computer to record the temperature data. The Beckman[®] converter sampled the output of each thermocouple approximately 15 times per second (0.068 seconds per sample).

DATA REDUCTION

The reduction of thin-skin thermocouple data normally involves only the calorimetric heat balance, which, in coefficient form is

$$H(TO) = wbc_p \frac{DTWDT}{TO-TW} \quad (1)$$

Radiation and conduction losses are neglected in this heat balance, and data reduction simply requires evaluation of DTWDT from the temperature-time data and determination of model material properties. For the present tests, radiation effects were negligible; however, conduction effects were potentially significant in several regions of the model. To permit identification of these regions and improve evaluation of the data, the following procedure was used.

Separation of variables and integration of Eq. (1) assuming constant w , b , c_p , and TO yields

$$\frac{H(TO)}{wbc_p} (t - t_i) = \ln \frac{TO-TW_i}{TO-TW} \quad (2)$$

Since $H(TO)/wbc_p$ is a constant, plotting $\ln [(TO-TW_i)/(TO-TW)]$ versus time will give a straight line if conduction is negligible. Thus, deviations from a straight line can be interpreted as conduction effects.

The data were evaluated in this manner and, generally, a reasonably linear portion of the curve could be found for all thermocouples. A linear

DATA REDUCTION (Continued)

least-squares curve fit of $\ln |(T_0 - T_{W_i}) / (T_0 - T_W)|$ versus time was applied to the data. In Tunnel A the data reduction time was delayed for all thermocouples that were influenced by the tank induced shock until they had cleared this region. The data reduction time for Tunnel B was typically started at centerline. However, the data for Runs 5-239 were reduced starting 0.4 seconds after centerline to obtain a linear portion of the curve. The curve fit extended for a time span which was a function of the heating rate, as shown on the following list.

<u>Range</u>	<u>Number of Points</u>	<u>Time Span, sec.</u>
DTWDT > 32	5	0.27
16 < DTWDT ≤ 32	7	0.41
8 < DTWDT ≤ 16	9	0.54
4 < DTWDT ≤ 8	13	0.82
2 < DTWDT ≤ 4	17	1.09
1 < DTWDT ≤ 2	25	1.63
DTWDT ≤ 1	41	2.72

In general, the time spans given above were adequate to keep the evaluation of the right-hand side of Eq. (2) within the linear region. The value of c_p was not constant, as assumed, and the relation

$$c_p = 0.0797 + (5.556 \times 10^{-5}) TW, \text{ (17-4 PH stainless steel)} \quad (3)$$

was used with the computed value of TW at the midpoint of the curve fit. The maximum variation of c_p over any curve fit was less than 1.5 percent.

DATA REDUCTION (Continued)

Thus, the assumption of constant c_p was reasonable. The value of density used for the 17-4 PH stainless steel skin was, $w = 490 \text{ lbm/ft}^3$, and the skin thickness, b , for each thermocouple is listed in Tables V, VI and VII. The four thermocouples (T/C No. 428, 429, 430, and 431) on the base of the 60- \emptyset model, see Figure 7i, were attached to 15-5 PH stainless steel. The value of density for the 15-5 PH stainless steel was 490.75 lbm/ft^3 , and the value of c_p was

$$c_p = 0.0645 + (5.8 \times 10^{-5}) \text{ TW, Btu/lbm-}^\circ\text{R.} \quad (4)$$

The heat-transfer coefficient calculated from Eq. 2 was normalized using the Fay-Riddell stagnation point coefficient, H_{REF} , based on a nose radius of 1.0 ft full scale (see Remarks section).

In addition to computing heat-transfer coefficient using T_0 as the assumed adiabatic wall temperature, T_{AW} , coefficients were computed using an assumed T_{AW} of $0.95 T_0$ and a computed value of R_{TO} for the data in Tunnel A and $0.9 T_0$ and R_{TO} for the data in Tunnel B. The value of R is defined as T_{AW}/T_0 . The value of R was computed by the following equation supplied by Rockwell International (Reference 5).

$$R = a_1 + (a_2)(\sin(\alpha + \epsilon))^{a_3} \quad (5)$$

where α is the model angle of attack and ϵ is the local model surface deflection angle at a selected thermocouple location. The values of a_1 , a_2 , and a_3 for each Mach number are:

DATA REDUCTION (Concluded)

<u>MACH NO.</u>	<u>a₁</u>	<u>a₂</u>	<u>a₃</u>
3.0	0.9345	0.1004	2.165
4.0	0.922	0.1004	1.965
8.0	0.867	0.133	1.55

The local model surface angles, ϵ , for the appropriate thermocouples used in this test on the 60-Ø model are presented in Table IX. The local surface angles on the 83-Ø model are presented in Table X. For those thermocouples where ϵ is not given, an R value of 0.95 was used for Mach numbers 3 and 4 and a value of 0.9 was used for Mach 8.

The method used to calculate the analytical temperature ratio, R, has been applied to all the tabulated data. However, in regions of separated flow or complex interaction, the basic assumptions no longer apply, and the computed values of R should be used with care.

The use of three assumed values of TAW provides an indication of the sensitivity of the heat-transfer coefficients to the value of TAW assumed. As can be noted in the tabulated data, there are large percentage differences in the values of the heat-transfer coefficients calculated from the three assumed values of TAW. Therefore, if the data are to be used for flight predictions, the value selected for TAW/TO is obviously very important.

Equations and methods documented in this section and used to reduce the resulting data from this test series were extracted directly from Reference 7.

DISCUSSION OF RESULTS

The results of this test series, OH-84B, OH-105, and IH-102, were normalized heat transfer coefficients evaluated at the three assumed values of adiabatic wall temperature, TAW, for selected thermocouple locations on the 56-0, 60-0, and 83-0 models of the Space Shuttle orbiter. Data quality was determined by two factors: (1) the linear least squares curve fit of the log ratio versus time (see Data Reduction) and (2) comparison with previous data. Data quality for Tests OH-84B and OH-105 in Tunnel B were judged to be very good. Representative data from the lower centerline of the 60-0 model for Mach number 8 in Tunnel B are presented in Figure 12. The figure also shows data from a previous test of the same model which compares very well with the present data. Data quality for Test IH-102 in Tunnel A was not nearly as good as data from Tunnel B. The log ratio plots indicated that the thermocouples were strongly influenced by shocks emanating from the model installation tank and fairing doors as the model traversed forward on centerline. For runs where sideslip angles were required, data from thermocouples oriented toward the top of the test section would be significantly different than data from the same thermocouples oriented toward the bottom of the test section where the model installation tank was. In some cases where a pure sideslip angle was required, runs were repeated to orient the thermocouple toward the top of the test section. Therefore, although the Tunnel A data was completely reviewed at the facility before the final results were published, caution is required when using the data.

DISCUSSION OF RESULTS (Continued)

Two types of heat transfer data resulted from this test series, tabulated and plotted. Tabulated data are presented in the Appendix; ØH84B in Vol. 1-4; ØH105 in Vol. 5 and IH102 in Vol. 6. The plotted data are data received by Rockwell while on-site. These data are not included in this report but Table XI delineates those thermocouples selected from each constant set to be plotted. The three NASA tests completed during this program were intermingled for running efficiency and are reported in this document as a group. The data presented in the Appendix are listed in consecutive order of the test data sets as outlined in Table II. The following will help separate the data by NASA test number and by model number.

<u>Runs</u>	<u>NASA Test No.</u>	<u>Model No.</u>	<u>Thermocouple Constant Sets</u>
5-203	OH-84B	60-0 (Base Sting)	111, 122, 133
204-239	OH-105	60-0	711, 722, 733
240-372	AFFDL*	60-0	-
373-385	OH-105	60-0	811
386-414	IH-102	56-0	311
415-443	OH-105	83-0	911, 922
444-555	IH-102	60-0	511, 522, 533
556-575	IH-102	83-0	411, 422
577-768	OH-84B	60-0 (Offset Sting)	211, 222

*These tests were completed for the Air Force Flight Dynamics Laboratory using Model 60-0; data are not included in the Appendix.

DISCUSSION OF RESULTS (Continued)

DATA UNCERTAINTY

An evaluation of the influence of random measurement errors is presented in this section to provide a partial measure of the uncertainty of the final test results presented in this report. Although evaluation of the systematic measurement error (bias) is not included, it should be noted that the instrumentation accuracy values (see Instrumentation) used in this evaluation represent a total uncertainty combination of both systematic and two-sigma random error contributions.

Accuracy of the basic tunnel parameters P_0 and T_0 and the two-sigma deviation in Mach number determined from test section flow calibrations were used to estimate uncertainties in the other freestream properties, using the Taylor series method of error propagation; i.e.,

$$(\Delta F)^2 = \frac{\partial F}{\partial X_1} \Delta X_1^2 + \frac{\partial F}{\partial X_2} \Delta X_2^2 + \frac{\partial F}{\partial X_3} \Delta X_3^2 + \dots + \frac{\partial F}{\partial X_n} \Delta X_n^2$$

where ΔF is the absolute uncertainty in the dependent parameter $F = f(X_1, X_2, X_3 \dots X_n)$; $X_1, X_2, X_3 \dots X_n$ are the independent measurements; and $\Delta X_1, \Delta X_2, \Delta X_3 \dots \Delta X_n$ are the errors in the independent measurements.

DISCUSSION OF RESULTS (Concluded)

<u>MACH NO.</u>	<u>Uncertainty (\pm), percent</u>					
	<u>MACH NO.</u>	<u>PO</u>	<u>TO</u>	<u>P-INF</u>	<u>Q-INF</u>	<u>RE/FT</u>
3.01	0.6	0.2	0.5	2.6	1.4	1.2
4.01	0.4	0.2	0.5	2.4	1.5	1.2
4.02	0.4	0.2	0.5	2.4	1.5	1.2
7.90	0.4	0.27	0.4	2.5	1.7	1.2
7.94	0.4	0.25	0.4	2.5	1.7	1.2
7.98	0.3	0.25	0.4	1.6	1.2	0.9
7.99	0.3	0.25	0.4	1.6	1.2	0.9
8.00	0.3	0.25	0.4	1.6	1.2	0.9

Reduced Data

Estimated uncertainties for the individual terms in Eq. (2) were used in the Taylor series method of error propagation to obtain uncertainty values of heat-transfer coefficient as represented typically by the ranges listed below:

<u>Range of H(TO)</u>	<u>Uncertainty (\pm), percent</u>	
	<u>Tunnel A</u>	<u>Tunnel B</u>
10^{-4}	15	10
10^{-3}	13	7
10^{-2}	10	5

These values assume that the uncertainty for the density, skin thickness, and specific heat of the thin skin material, as supplied by Rockwell are within ± 1 , ± 3 , and ± 5 percent, respectively.

REFERENCES

1. W. F. Braddock, "Information for Testing the 0.0175-Scale Thin-Skin Thermocouple Model 60-0 in the AEDC VKF "B" Hypersonic Wind Tunnel, Test OH-84B," STS79-0248, May 11, 1979.
2. W. F. Braddock, "Information for Thin-Skin Heat Transfer Tests of Space Shuttle Orbiter Models 60-0 (0.0175-Scale) and 83-0 (0.04-Scale Forebody) in the AEDC VKF "B" Hypersonic Wind Tunnel, Test OH-105," STS79-0249, April 30, 1979.
3. W. F. Braddock, "Information for Thin Skin Heat Transfer Tests of the Space Shuttle 0.0175-Scale Launch Vehicle Model 56-0/60-TS, 0.04-Scale Orbiter Forebody Model 83-0, 0.0175-Scale Orbiter Model 60-0, and 0.0175-Scale Launch Vehicle Model 60-OTS in the AEDC VKF "A" Supersonic Wind Tunnel, Text IH-102", STS79-0239, April 30, 1979.
4. Test Facilities Handbook (Tenth Edition), "Von Karman Gas Dynamics Facility, Vol. 3," Arnold Engineering Development Center, May 1974.
5. Dr. Serge-Albert Waiter, "Determination of Temperature Efficiency $R = TAW/TO$ in Low Temperature Wind Tunnels (An Engineering Attempt)," NA-77-299, Prepared for the 47th Semi-Annual Meeting of the Supersonic Tunnel Association, April 1977.
6. J. A. Fay and F. R. Riddell, "Theory of Stagnation Point Heat Transfer in Dissociated Air;" *Journal of the Aeronautical Sciences*, Vol. 25, No. 2, February 1958.
7. K. W. Nutt, G. L. Dommerman, and A. C. Mansfield, "Test Results from the NASA/Rockwell International Space Shuttle Orbiter Tests (OH-84B, IH-102, and OH-105)," AEDC-TSR-79-V42, August 1979.

TABLE I. TEST CONDITIONS

Mach Number	Stagnation Pressure	Stagnation Temperature	Dynamic Pressure	Static Pressure	Reynolds Number
<u>MACH NO.</u>	<u>PO, psia</u>	<u>TO, °R</u>	<u>Q-INF, psia</u>	<u>P-INF, psia</u>	<u>RE/FT x 10⁻⁶</u>
3.01	10	710	1.7	0.27	1.0
3.01	34		5.8	0.91	3.5
3.01	37		6.3	0.99	3.8
4.01	17		1.2	0.11	1.0
4.02	33		2.4	0.21	2.0
4.02	58		4.2	0.37	3.5
4.02	66	710	4.8	0.42	4.0
7.9	100	1250	0.5	0.01	0.5
7.94	205	1260	1.0	0.02	1.0
7.98	435	1300	2.0	0.05	2.0
7.99	670	1320	3.1	0.07	3.0
8.0	850	1350	3.9	0.09	3.7

TABLE II.

SHEET 1 of 7

JEV

TEST: ϕ H84B (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 6/20/79					
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT					
		α	β	δ_c	δ_{RF}	δ_{SB}	M	CONK CODE	SW. POS.	Comp. Set		0.5	1.0	2.0	3.0	3.7	
** R4U*01	60- ϕ	25	0	0	0	49	8.0	10	3	133						5	
		25	0			49			1	111			9	8	7	6	
02		30	-4			0			1	111				155	116	129	
									2	122					117	130	
									3	133				157	118	131	
03			-2						1	111				152	113	126	
									2	122				153	114	127	
									3	133				154	115	128	
04			-1						1	111				149	110	122	
									2	122				150	111	123	
									3	133				151	112	125	
06			0						1	111		10		47	76	119	
									2	122		11		48	77	120	
									3	133		12		49	78	121	
07									3	133				148			
08			+1						1	111				50			
									2	122				51			
									3	133				52			
OR β SCHEDULES																	

TEST RUN NUMBERS

** In the tabulated data, thermocouples numbered. ###A appear as 2### and ###C appear as 1###.

TABLE II (Continued)

SHEET 2 of 7

JEV

TEST: $\phi H84B$ (V41B-67)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 6/20/79

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT					
		α	β	δ_c	δ_{RE}	δ_{SB}	M	CONK CODE	SW. POS.	CON. SET.	0.5	1.0	2.0	3.0	3.7		
R4U*09	60- ϕ	30	+2	0	0	0	8.0	10	-1	III				53			
10									1	III				54			
									2	122				55			
									3	133				56			
11		35	-4						1	III			164	107	141		
									2	122			165	108	142		
									3	133			166	109	143		
12			-2						1	III			161	104	138		
									2	122			162	105	139		
									3	133			163	106	140		
13			-1						1	III			158	101	135		
									2	122			159	102	136		
									3	133			160	103	137		
14			0						1	III	13		60	79	132		
									2	122	14		61	80	133		
									3	133	15		62	81	134		

LIST RUN NUMBERS

α OR β
SCHEDULES

TABLE II (Continued)

SHEET 3 of 7

JEV

TEST: $\phi H84B$ (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY									DATE: 6/20/79					
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS									REYNOLDS NUMBER $\times 10^6$ / FT					
		α	β	δ_e	δ_{BF}	δ_{SB}	M	COMP. CODE	SW. POS.	Corr. Set	0.5	1.0	2.0	3.0	3.7	
R4U*15	60- ϕ	40	-10	0	0	0	8.0	10	1	III	201	188	170	98		
									2	122	202	189	171	99		
									3	133	203	190	172	100		
17			-4						1	III	198	185	176	97		
									2	122	199	186	177	95		
									3	133	200	187	178	96		
18			-2						1	III	195	182	173	89		
									2	122	196	183	174	90		
									3	133	197	184	175	93		
20			-1						1	III	**191					
21									1	III	192	179	167	85		
									2	122	193	180	168	86		
									3	133	194	181	169	88		
22			0						1	III	16	32	73	82	145	
									2	122	17	33	74	83	146	
									3	133	18	34	75	84	147	
a OR β _____ SCHEDULES _____																

** NO DATA AVAILABLE

TABLE II (Continued)

SHEET 4 of 7

JEV

TEST: ϕ H84B (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY								DATE: 6/20/79						
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS								REYNOLDS NUMBER $\times 10^6$ / FT						
		α	β	δ_e	δ_{BF}	δ_{SB}	M	COMP. CODE	SW. POS.		0.5	1.0	2.0	3.0	3.7	
R44*24	60- ϕ	40	0	0	0	0	8.0	10	3	133				87		
25			+1						1	111	20	35	70			
									2	122	21	36	71			
									3	133	22	37	72			
26			+2						1	111	23	38	67			
									2	122	24	39	68			
									3	133	25	40	69			
27			+4						1	111	26	41	63			
									2	122	27	42	66			
									3	133	28	43	65			
28			+10						1	111	29	44	57			
									2	122	30	45	58			
									3	133	31	46	59			
29			0	-15	-12.5			20	1	211	717	715	709	707		
					-12.5				2	222	718	716	710	708		
30				0					1	211	719	713	711	705		
				0					2	222	720	714	712	706		
α OR β _____ SCHEDULES _____																

TEST RUN NUMBERS

TABLE II (Continued)

SHEET 5 of 7

JEV

TEST: ϕ H84B (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 6/20/79					
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS									REYNOLDS NUMBER $\times 10^6$ / FT						
		α	β	δ_e	δ_{RE}	δ_{SB}	M	CONF CODE	SW. POS.	CONF SET	0.5	1.0	2.0	3.0	3.7		
R4U* 31	60 - ϕ	40	0	-12.5	-12.5	0	8.0	20	1	211	725	739	737	727			
									2	222	726	740	738	728			
32					-5.0				1	211	723	741	735	729			
									2	222	724	742	736	730			
33					0.0				1	211	721	743	733	731			
									2	222	722	744	734	732			
34				-5	-12.5				1	211	633	659	647	649			
									2	222	634	660	648	650			
35					-5.0				1	211	635	657	645	655			
									2	222	636	658	646	656			
36					0				1	211	637	663	643	653			
									2	222	638	664	644	654			
37					5.0				1	211	639	661	641	651			
									2	222	640	662	642	652			
38				0	-12.5				1	211	631	605	603	581			
									2	222	632	606	604	582			
39					-5.0				1	211	621	615	593	579			
									2	222	622	616	594	580			

α OR β

SCHEDULES

LIST RUN NUMBERS

TABLE II (Continued)

SHEET 6 of 7

JEV

TEST: ϕ H84B (V41B-67)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 6/20/79

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS									REYNOLDS NUMBER $\times 10^6$ / FT					
		α	β	δ_e	δ_{RF}	δ_{SB}	M	CONK CODE	SW. POS.	CONK SET	0.5	1.0	2.0	3.0	3.7	
R4U*40	60- ϕ	40	0	0	0	0	8.0	20	1	211	623	613	595	577		
									2	222	624	614	596	578		
41					5				1	211	625	611	597	583		
									2	222	626	612	598	584		
42					8				1	211	619	617	591	589		
									2	222	620	618	592	590		
43					15				1	211	627	609	599	585		
									2	222	628	610	600	586		
44					23.5				1	211	629	607	601	587		
									2	222	630	608	602	588		
45				5	-5				1	211	681	667	687	701		
									2	222	682	668	688	702		
46					0				1	211	679	665	689	699		
									2	222	680	666	690	700		
47					8				1	211	683	669	685	703		
									2	222	684	670	686	704		
48					15				1	211	675	673	691	697		
									2	222	676	674	692	698		

37

TEST RUN NUMBERS

α OR β
SCHEDULES

JEN

[illegible]

TABLE II (Continued)

SHEET 1 of 2

JEV

TEST: ϕ H105 (V41B-67)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 6/20/79

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS									REYNOLDS NUMBER $\times 10^6$ / FT					
		α	β	δ_e	δ_{RF}	δ_{SB}	M	CONF. CODE	SW. POS.	CON. SET	0.5	1.0	2.0	3.0	3.7	
R4V#01	60 - ϕ	0	0	0	0	0	8.0	70	1	711		204		216	228	
									2	722		205		217	229	
									3	733		206		218	230	
									4	811		382		378	373	
02									4	811					377	
03		10							1	711		207		219	231	
									2	722		208		220	232	
									3	733		209		221	233	
									4	811		383		379	374	
04		15							1	711		210		222	237	
									2	722		211		223	238	
									3	733		212		224	239	
									4	811		384		380	375	
05		20							1	711		213		225	234	
									2	722		215		226	235	
									3	733		214		227	236	
									4	811		385		381	376	

TEST RUN NUMBERS

α OR β

SCHEDULES

TEST RUN NUMBERS

JEV

DATE: 6/20/79

715T KUN NUMBERS

TABLE II (Continued)

SHEET 1 of 7

JCV

TEST: JH102 (V41B-67)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 6/20/79

DATA SET IDENTIFIER		CONFIGURATION	PARAMETERS								REYNOLDS NUMBER $\times 10^6$ / FT							
			α	β	δ_e	δ_{AF}	δ_{S3}	M	CONK CODE	SW. POS.	CHS. SET		0.5	1.0	2.0	3.0	3.5	4.0
R4W*01		56- ϕ	0	-15	0	0	0	3.0	31	1	311							414
	02		0	-15				4.0	31									413
	03	56- ϕ / 60-TS	-5	-11				3.0	30					389				394
	04		-5	-6														393
	05		-5	0										387				392
	06		0	-11										388				395
	07		0	-6														396
	08		0	-3														397
	09		0	0										386				391
	10		0	0										390				
	11		5	0														398
	12		-5	-11				4.0						402			411	
	13			-6														405
	14			0										400				404
	15		0	-11										401				409
	16			-6														408
	17			-3														407
	18			0										399				403
	19			0														410
	20		5	0														406

LIST RUN NUMBERS

LIST RUN NUMBERS

 α OR β

SCHEDULES

TABLE II (Continued)

SHEET 2 of 7

JEV

TEST: IH102 (V41B-67)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 6/20/79

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT						
		α	β	δ_e	δ_{RF}	δ_{SB}	M	CONC CODE	SW. POS.	$\frac{P}{2}$	0.5	1.0	2.0	3.0	3.5	4.0		
R4W*21	60 - ϕ	-40	0	0	0	0	3.0	51	1	511					546			
									2	522					547			
									3	533					548			
22		-15	0					50	1	511					528			
									2	522					529			
									3	533					530			
23		0	-15						1	511					525			
									2	522					526			
									3	533					527			
24			0						1	511			531		522			
									2	522			532		523			
									3	533			533		524			
25		-40	0				4.0	51	1	511				553	550			
									2	522				554	551			
									3	533				555	552			
26		-30	0						1	511					549			
27		-15	0					50	1	511					540			
									2	522					541			
									3	533					542			

11 STATION NUMBERS

LIST RUN NUMBERS

α OR β
SCHEDULES

TABLE II (Continued)

SHEET 3 of 7

JEV

TEST: IH102 (V41B-67)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 6/20/79

DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS									REYNOLDS NUMBER $\times 10^6$ / FT						
		α	β	δ_e	δ_{RE}	δ_{SB}	M	CONC CODE	SW. POS.	Cor. \pm	0.5	1.0	2.0	3.0	3.5	4.0	
R4W*28	60 - ϕ	0	-15	0	0	0	4.0	50	1	511					537		
									2	522					538		
									3	533					539		
29			0						1	511		543			534		
									2	522		544			535		
									3	533		545			536		
30	60 - ϕ TS	-5	-11				3.0	60	1	511					489		
									2	522					490		
									3	533					491		
31			-6						1	511		500			482		
									2	522		501			483		
									3	533		502			484		
32			0						1	511		497			471		
									2	522		498			472		
									3	533		499			473		
33		0	-11						1	511					488		
									2	522					486		
									3	533					487		

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LIST RUN NUMBERS

α OR β
SCHEDULES

TABLE II (Continued)

SHEET 5 of 7

JEV

TEST: IH102 (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 6/20/79						
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT						
		α	β	δ_e	δ_{RF}	δ_{SB}	M	CONK CODE	SW. POS.	CON. SET		0.5	1.0	2.0	3.0	3.5	4.0	
R4W*42	60- ϕ TS	-5	-6	0	0	0	4.0	60	1	511			519			459		
									2	522			520			460		
									3	533			521			461		
43			0						1	511			514			450		
									2	522			517			451		
									3	533			518			452		
45		0	-11						1	511						507		
									2	522						503		
									3	533						504		
																506		
47			-6						1	511								
									2	522						457		
									3	533						458		
																505		
49			-3						1	511						505		
									2	522						454		
									3	533						455		
α OR β _____ SCHEDULES _____																		

LIST RUN NUMBERS

TABLE II (Continued)

SHEET 6 of 7

JEV

TEST: IH102 (V41B-67)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 6/20/79						
DATA SET IDENTIFIER	CONFIGURATION	PARAMETERS										REYNOLDS NUMBER $\times 10^6$ / FT						
		α	β	δ_c	δ_{RF}	δ_{SR}	M	CONK CODE	SW. POS.	CONK SET		0.5	1.0	2.0	3.0	3.5	4.0	
R4W*50	60- ϕ TS	0	0	0	0	0	4.0	60	1	511			512			444		
									2	522			515			445		
									3	533			516			446		
51		5	0						1	511						447		
									2	522						448		
									3	533						449		
52	83- ϕ	-5	0				3.0	40	1	411			566			558		
									2	422			567			559		
53			6						1	411						562		
									2	422						563		
54		0	0						1	411			564			556		
									2	422			565			557		
55			6						1	411						560		
									2	422						561		
56		-5	0				4.0		1	411						570		
									2	422						571		
57			6						1	411						574		
									2	422						575		

TABLE II (Continued)

SNGR 7 of 7

REV

[illegible]

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B₆₂GENERAL DESCRIPTION : Configuration 140C orbiter fuselage. MCR 200-R4Similar to 140A/B fuselage except aft body revised and improved
midbody-wing-boot fairing, $X_o = 940$ to $X_o = 1040$.MODEL SCALE: 0.0175DRAWING NUMBER; VL70-000140C, -000202C, -000205A
VL70-000200B, -000203

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (IML: FWD Sta $X_o=238$), In.	1290.3	22.58
Length (OML: Fwd Sta $X_o=235$), In.	1293.3	22.63
Max Width (At $X_o = 1528.3$), In.	264.0	4.62
Max Depth (At $X_o = 1464$), In.	250.0	4.38
Fineness Ratio	4.899	4.899
Area - Ft ²		
Max. Cross-Sectional	340.885	0.104
Planform		
Wetted		
Base		

TABLE IIIA - (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY - C₁₂GENERAL DESCRIPTION : Configuration 140C orbiter canopy. Vehicle
cabin No. 31 updated to MCR 200-R4. Used with fuselage B₆₂.MODEL SCALE: 0.0175DRAWING NUMBER: VL70-000140C, -000202B, -000204

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_o = 434.643$ to 578), In.	<u>143.357</u>	<u>2.508</u>
Max Width (At $X_o = 513.127$), In.	<u>152.412</u>	<u>2.667</u>
Max Depth ($Z_o = 501$ to 449.39), In.	<u>51.61</u>	<u>0.903</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE IIIA (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: ELEVON - E₅₂GENERAL DESCRIPTION: Elevon for configuration 140C. Hingeline at $X_o = 1387$,
elevon split line $X_w = 312.5$, 6.0", beveled edges, and centerbodies.MODEL SCALE: 0.0175DRAWING NUMBER: VL70-000140C, -006089, -006092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>210.0</u>	<u>0.064</u>
Span (equivalent) - In.	<u>349.2</u>	<u>6.111</u>
Inb'd equivalent chord- In.	<u>118.0</u>	<u>2.065</u>
Outb'd equivalent chord	<u>55.19</u>	<u>0.966</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.0</u>	<u>0.0</u>
Tailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.0</u>	<u>0.0</u>
(Product of area & c)		
Area Moment (normal to hinge line) Ft ³	<u>1587.25</u>	<u>0.008</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>1.587</u>
Hingeline dihedral (origin at $Z_o = 261.3509$), deg.	<u>5.229</u>	<u>5.229</u>

TABLE IIIA (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY FLAP - F₁₀GENERAL DESCRIPTION : Configuration 140C body flap. Hingeline located
at X_o = 1532, Z_o = 287.MODEL SCALE: 0.0175DRAWING NUMBER: VL70-000140C, -355114

DIMENSIONS :

FULL SCALE

MODEL SCALE

Length (X _o = 1525.5 to X _o = 1613), In.	87.50	1.531
Max Width (At L. E., X _o = 1525.5), In.	256.00	4.480
Max Depth (X _o = 1532), In.	19.798	0.346
Fineness Ratio		
Area - Ft ²		
Max. Cross-Sectional (At H. L.)	35.196	0.011
Planform	135.00	0.041
Wetted		
Base (X _o = 1613)	4.89	0.0015

TABLE IIIA (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : OMS POD - M₁₆GENERAL DESCRIPTION : Configuration 140C orbiter OMS Pod - short pod.MODEL SCALE: 0.0175DRAWING NUMBER : VL70-008401, -008410

DIMENSIONS :

FULL SCALE

MODEL SCALE

Length (OMS Fwd Sta $X_o = 1310.5$), In. 258.504.524Max Width (/-t $X_o = 1511$), In.136.82.394Max Depth (/-t $X_o = 1511$), In.74.701.307

Fineness Ratio

2.4842.484Area = Ft²

Max. Cross-Sectional

58.8640.018

Planform

Wetted

Base

TABLE IIIA (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: VERTICAL - V₃₀

GENERAL DESCRIPTION: Slab sided vertical tail with extended span

MODEL SCALE: 0.0175

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
TOTAL DATA		
Area (Theo) ÷ Ft ² Planform	442.299	0.135
Span - In.	358.57	6.275
Aspect Ratio	2.019	2.019
Rate of Taper	0.507	0.507
Taper Ratio	0.323	0.323
Sweep-Back Angles, Degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.25	26.25
0.25 Element Line	41.13	41.13
Chords:		
Root (Theo) WP	268.50	4.699
Tip (Theo) WP	86.75	1.513
MAC	193.12	3.390
Fus. Sta. of .25 MAC	1474.87	25.301
W.P. of .25 MAC	648.71	11.352
B.L. of .25 MAC	0.0	0.0
Airfoil Section		
Leading Wedge Angle - Deg.	11.75	11.75
Trailing Wedge Angle - Deg	0.0	0.0
Leading Edge Radius	0.0	0.0
Void Area	0.0	0.0
Blanketed Area	0.0	0.0

TABLE IIIA (Concluded)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: WING-W₁₂₇

GENERAL DESCRIPTION: Configuration 140C orbiter wing, MCR 200-R4. Similar to 140A/B wing W₁₁₆ but with refinements: improved wing-boot-midbody fairing (X₀ = 940 to X₀ = 1040). Elevon split line relocated from Y₀ = 281 to Y₀ = 312.5).

MODEL SCALE: 0.0175

TEST NO.

DWG. NO. VL70-000140C, -0002001DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATAArea (Theo.) Ft^2

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

EXPOSED DATAArea (Theo) Ft^2

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip 1.00 $\frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root $\frac{b}{2}$ =Tip $\frac{b}{2}$ =

Data for (1) of (2) Sides

Leading Edge Cuff Ft^2

Planform Area

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

54

2690.00

0.824

936.68

16.392

2.265

2.265

1.177

1.177

0.200

0.200

3.500

3.500

0.500

0.500

3.000

3.000

45.000

45.000

- 10.065

- 10.065

35.209

35.209

689.24

12.062

137.85

2.412

474.81

8.309

1136.83

19.895

290.58

5.085

182.18

3.187

1751.50

0.536

720.68

12.612

2.059

2.059

0.245

0.245

562.09

9.837

137.85

2.412

392.83

6.875

1185.98

20.755

294.30

5.500

251.77

4.406

0.113

0.113

0.120

0.120

115.18

0.035

500.00

8.750

1024.0

17.920

TABLE III-B MODEL 60-Ø ORBITER

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B₆₂

GENERAL DESCRIPTION : Configuration 140C orbiter fuselage, MCR 200-R4

Similar to 140A/B fuselage except aft body revised and improved
midbody-wing-boot fairing, $X_o = 940$ to $X_o = 1040$.

MODEL SCALE: 0.0175

DRAWING NUMBER : VL70-000140C, -000202C, -000205A
VL70-000200B, -000203

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (IML: FWD Sta $X_o=238$), In.	1290.3	22.58
Length (OML: Fwd Sta $X_o=235$), In.	1293.3	22.63
Max Width (At $X_o = 1528.3$), In.	264.0	4.62
Max Depth (At $X_o = 1464$), In.	250.0	4.38
Fineness Ratio	4.899	4.899
Area - Ft ²		
Max. Cross-Sectional	340.885	0.104
Planform		
Wetted		
Base		

TABLE III-B (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY - C₁₂
GENERAL DESCRIPTION : Configuration 140C orbiter canopy. Vehicle
cabin No. 31 updated to MCR 200-R4. Used with fuselage B₆₂.
MODEL SCALE: 0.0175
DRAWING NUMBER : VL70-000140C, -000202B, -000204

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_0 = 434.643$ to 578), In.	<u>143.357</u>	<u>2.508</u>
Max Width (At $X_0 = 513.127$), In.	<u>152.412</u>	<u>2.667</u>
Max Depth ($Z_0 = 501$ to 449.39), In.	<u>51.61</u>	<u>0.903</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III-B (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: ELEVON - E₅₂GENERAL DESCRIPTION: Elevon for configuration 140C. Hingeline at $X_o = 1387$,
elevon split line $X_w = 312.5, 6.0$ ", beveled edges, and centerbodies.MODEL SCALE: 0.0175DRAWING NUMBER: VL70-000140C, -006089, -006092DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>210.0</u>	<u>0.064</u>
Span (equivalent) - In.	<u>349.2</u>	<u>6.111</u>
Inb'd equivalent chord- In.	<u>118.0</u>	<u>2.065</u>
Outb'd equivalent chord	<u>55.19</u>	<u>0.966</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.0</u>	<u>0.0</u>
Tailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.0</u>	<u>0.0</u>
(Product of area & \bar{c})		
Area Moment (Normal to hinge line) Ft ³	<u>1587.25</u>	<u>0.008</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>1.587</u>
Hingeline dihedral (origin at $Z_o = 261.3509$), deg.	<u>5.229</u>	<u>5.229</u>

TABLE III-B (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY FLAP - F₁₀

GENERAL DESCRIPTION : Configuration 140C body flap. Hingeline located
at X_o = 1532, Z_o = 287.

MODEL SCALE: 0.0175

DRAWING NUMBER: VL70-000140C, -355114

DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (X _o = 1525.5 to X _o = 1613), In.	87.50	1.531
Max Width (At L. E., X _o = 1525.5), In.	256.00	4.480
Max Depth (X _o = 1532), In.	19.798	0.346
Fineness Ratio		
Area - Ft ²		
Max. Cross-Sectional (At H. L.)	35.196	0.011
Planform	135.00	0.041
Wetted		
Base (X _o = 1613)	4.89	0.0015

TABLE III-B (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : OMS POD - M₁₆GENERAL DESCRIPTION : Configuration 140C orbiter OMS Pod - short pod.MODEL SCALE: 0.0175DRAWING NUMBER : VL70-008401, -008410

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OAS Fwd Sta $X_o = 1310.5$), In.	258.50	4.524
Max Width (At $X_o = 1511$), In.	136.8	2.394
Max Depth (At $X_o = 1511$), In.	74.70	1.307
Fineness Ratio	2.484	2.484
Area = Ft^2		
Max. Cross-Sectional	58.864	0.018
Planform		
Wetted		
Base		

TABLE III-B (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: RUDDER - R₁₈

GENERAL DESCRIPTION: The rudder is a secondary movable airfoil at the trailing edge of the vertical fin that imparts yaw forces. This dimensional data was calculated from the OML master dimensions.

MODEL SCALE: 0.0175DRAWING NUMBER: Vehicle 5 Configuration MCR 200, Rev. 7

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>97.84</u>	<u>0.030</u>
Span (equivalent) - In.	<u>198.614</u>	<u>3.476</u>
Inb'd equivalent chord - In.	<u>91.07</u>	<u>1.699</u>
Outb'd equivalent chord - In.	<u>50.80</u>	<u>0.889</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.833</u>	<u>34.833</u>
Tailing Edge	<u>26.249</u>	<u>26.249</u>
Hingeline	<u>34.833</u>	<u>34.833</u>
(Product of Area & \bar{c}),		
Area Moment (Normal to hingeline) Ft ³	<u>593.889</u>	<u>0.032</u>
Mean Aerodynamic Chord, In.	<u>72.840</u>	<u>1.275</u>

TABLE III-B (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: VERTICAL - V₈GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail (identical to configuration 140A/B vertical tail).MODEL SCALE: 0.0175DRAWING NUMBER: VL70-000140C, -000146B

DIMENSIONS:

FULL SCALEMODEL SCALE

TOTAL DATA

Area (Theo) - Ft²

Planform

413.253

0.127

Span (Theo) - In.

315.72

5.350

Aspect Ratio

1.675

1.675

Rate of Taper

0.507

0.507

Taper Ratio

0.404

0.404

Sweep-Back Angles, Degrees.

Leading Edge

45.000

45.000

Trailing Edge

26.25

26.25

0.25 Element Line

41.13

41.13

Chords:

Root (Theo) WP

268.50

4.699

Tip (Theo) WP

108.47

1.898

MAC

199.81

3.497

Fus. Sta. of .25 MAC

1463.35

25.609

W.P. of .25 MAC

635.52

11.122

B.L. of .25 MAC

0.0

0.0

Airfoil Section

Leading Wedge Angle - Deg.

10.00

10.00

Trailing Wedge Angle - Deg.

14.92

14.92

Leading Edge Radius

2.00

2.00

Void Area

13.17

0.0040

Blanketed Area

0.0

0.0

TABLE III-B (Concluded)

MODEL DIMENSIONAL DATA

MODEL COMPONENT: WING-W₁₁₄GENERAL DESCRIPTION: Configuration 5

NOTE: Identical to W₁₁₄ except airfoil thickness. Dihedral angle is along trailing edge of wing. Geometric twist = 0.

MODEL SCALE: 0.0175

TEST NO.

DWG. NO. VL70-000140A, -000200

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft^2

Planform

2690.0

0.824

Span (Theo) In.

936.68

16.392

Aspect Ratio

2.265

2.265

Rate of Taper

1.177

1.177

Taper Ratio

0.200

0.200

Dihedral Angle, degrees

3.500

3.500

Incidence Angle, degrees

0.500

0.500

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

45.000

45.000

Trailing Edge

- 10.056

- 10.056

0.25 Element Line

35.209

35.209

Chords:

Root (Theo) B.P.O.O.

689.24

12.062

Tip, (Theo) B.P.

137.85

2.412

MAC

474.81

8.309

Fus. Sta. of .25 MAC

1136.83

19.895

W.P. of .25 MAC

290.58

5.085

B.L. of .25 MAC

182.13

3.187

EXPOSED DATA

Area (Theo) Ft^2

1751.50

0.536

Span, (Theo) In. BP108

720.68

12.612

Aspect Ratio

2.059

2.059

Taper Ratio

0.245

0.245

Chords

Root BP108

562.09

9.837

Tip 1.00 $\frac{b}{2}$

137.85

2.412

MAC

392.83

6.875

Fus. Sta. of .25 MAC

1185.98

20.755

W.P. of .25 MAC

294.30

5.150

B.L. of .25 MAC

251.77

4.406

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root $\frac{b}{2}$ =

0.113

0.113

Tip $\frac{b}{2}$ =

0.120

0.120

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft^2

113.18

0.035

Leading Edge Intersects Fus M. L. @ Sta

500.00

8.750

Leading Edge Intersects Wing @ Sta

1024.00

17.920

TABLE III-C MODEL 60-0 TANK AND SRB'S.

MODEL DIMENSIONAL DATA

MODEL COMPONENT : EXTERNAL TANK - T₃₈

GENERAL DESCRIPTION : Spike nose configuration.

MODEL SCALE: 0.0175

DRAWING NUMBER: VC78-0000023 (ET DRAWING)
VC72-0000024 (SHUTTLE CONFIG. DRAWING)

(Dimensions are to tank structural OML, TPS not included).

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	<u>1850.525</u>	<u>32.384</u>
Max Width	<u>331.00</u>	<u>5.792</u>
Max Depth	<u></u>	<u></u>
Fineness Ratio	<u>5.687</u>	<u>5.687</u>
Area - Ft ²	<u></u>	<u></u>
Max. Cross-Sectional	<u>594.678</u>	<u>0.1821</u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>

TABLE III-C (Concluded)
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S26

GENERAL DESCRIPTION : The BSRM is an external propulsion system which is jettisoned and recoverable after burnout. The BSRM's can be refurbished and reused after recovery.

MODEL SCALE: 0.0175

DRAWING NUMBER: SRB DRAWING - VCT7-000002G, VCT7-000003F
SHUTTLE CONFIG. - VC72-000002F

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	<u>1789.60</u>	<u>31.318</u>
Max Width tank dia., In.	<u>146.00</u>	<u>2.555</u>
Max Depth, aft shroud dia.; In.	<u>208.20</u>	<u>3.643</u>
Fineness Ratio	<u>8.596</u>	<u>8.596</u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
W.P. of BSRM centerline	<u>400.0</u>	
F.S. of BSRM nose	<u>743.0</u>	
B.P. of BSRM centerline	<u>250.5</u>	

TABLE III-D MODEL 83-Ø ORBITER

MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B₆₀GENERAL DESCRIPTION : 50% orbiter forebody, vehicle 140C.NOTE: This body includes a small portion of the wing glove.MODEL SCALE: 0.040DRAWING NUMBER: VL70-000140C

DIMENSIONS :

FULL SCALE

MODEL SCALE

Length

645.1525.80

Max Width

330.0013.20

Max Depth

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

TABLE III-D (Concluded)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY - C₁₀

GENERAL DESCRIPTION : Configuration 4 canopy and windshield as used
with B₂₅, six glass panes in windshield.

MODEL SCALE: 0.040

DRAWING NUMBER: VL70-000140B, 140C, 202B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_o = 434.643$ to 670), In.	<u>235.357</u>	<u>9.414</u>
Max Width	<u> </u>	<u> </u>
Max Depth (Glass, In.	<u>28.00</u>	<u>1.12</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
Nose/windshield intersection, $X_o =$	<u>434.643</u>	<u>17.386</u>

TABLE IV. CONFIGURATION CODES

<u>NASA TEST CODE</u>	<u>MODEL CONFIGURATION CODE</u>	<u>MODEL CONFIGURATION</u>	<u>TUNNEL</u>	<u>THERMOCOUPLE CONSTANT SETS</u>
	(See Figure 6)			
OH-84B	10	60-Ø BASE STING	B	111, 122, 133
OH-84B	20	60-Ø OFFSET STING	B	211, 222
IH-102	30	56-ØTS	A	311
IH-102	31	56-Ø	A	311
IH-102	40	83-Ø	A	411, 422
IH-102	50	60-Ø	A	511, 522, 533
IH-102	51	60-Ø	A	511, 522, 533
IH-102	60	60-ØTS	A	511, 522, 533
OH-105	70	60-Ø	B	711, 722, 733, 811
OH-105	80	83-Ø	B	911, 922

TABLE V. 60-Ø MODEL THERMOCOUPLE LOCATIONS

T/C No.	X/L	Full Scale			Model Scale			ϕ	Skin Thickness	Mat'l	Remarks
		X ₀	Y ₀	Z ₀	X _{from nose}	Y	Z _{from FRL}				
1	0	235.0	0	-	0	0	-	0	.040	17-4	Bottom ϕ
2	.005	241.47			.113				.032		
3	.01	247.93			.226				.033		
4	.02	260.87			.453				.040		
5	.03	273.80			.679				.040		
6	.04	286.73			.905				.040		
7	.05	299.67			1.132				.033		
8	.06	312.60			1.358				.035		
9	.07	325.53			1.584				.032		
10	.08	338.46			1.811				.032		
11	.09	351.40			2.037				.035		
12	.10	364.32			2.263				.037		
13	.12	390.20			2.716				.040		
14	.13	403.13			2.942				.038		
15	.14	416.06			3.169				.035		
16	.15	429.00			3.395				.036		
17	.16	441.93			3.621				.036		
18	.17	454.86			3.848				.035		
19	.18	467.79			4.074				.035		
20	.19	480.73			4.300				.035		
21	.20	493.66			4.527				.035		
22 C	.225	525.99			5.092				.035		
23	.25	558.32			5.658				.035		
24	.30	622.99			6.790				.035		
25	.35	687.66			7.922				.035		
26	.40	752.32			9.053				.034		
27 C	.45	816.99			10.185				.033		
28 C	.50	881.65			11.315				.032		
29 C	.55	946.32			12.443				.030		
30 C	.60	1010.9			13.580				.030		
31 C	.65	1075.6			14.711				.030		
32 C	.70	1140.3			15.843				.029		
33 C	.75	1204.9			16.975				.030		
34 C	.80	1269.6			18.106				.030		

TABLE V. Continued

T/C No.	X/L	Full Scale			Model Scale			Skin Thickness	Mat'l	Remarks
		X _o	Y _o	Z _o	X _{from nose}	Y	Z _{from FRL}			
35C	.85	1324.3	0	-	19.063	0	0	.029	17-4	Bottom $\frac{1}{2}$
36C	.90	1398.9			20.369			.031		
37C	.925	1431.3			20.935			.027		
38C	.950	1463.6			21.501			.027		
39C	.975	1495.9			22.067			.023		
40	1.015	1547.7			22.972			.030		
41	1.03	1567.1			23.312			.030		
42	1.045	1586.5			23.651			.028		
43	1.06	1605.0			23.977			.0265		
44	.05	299.67	25.0		1.132	.438	14	.032		Fuselage Bottom
45	.10	364.33	20.0		2.263	.350	10	.036		Surface
46	.15	429.0	24.0		3.395	.420	12	.035		
48	.20	493.66	50.0		4.527	.875	24	.025		
50C	.50	881.65	46.8		11.316	.819	-	.028		
51C	.60	1010.9			13.580			.025		
52C	.70	1140.3			15.843			.030		
53C	.80	1269.6			18.106			.030		
54C	.90	1398.6			20.369			.028		
55C	.95	1463.6			21.501			.025		
56C	.975	1495.9			22.067			.028		
57	1.015	1547.7			22.972			.030		
58	1.03	1567.1			23.312			.030		
59	1.045	1586.5			23.651			.030		
60	1.060	1605.0			23.977			.031		
61C	.40	752.32	93.60		9.053	1.638		.032		
62C	.50	881.65			11.316			.031		
63C	.60	1010.9			13.580			.033		
64C	.70	1140.3			15.843			.029		
65C	.80	1269.6			18.106			.031		
66C	.90	1398.6			20.369			.030		
67C	.95	1463.6			21.501			.029		
68C	.975	1495.9			22.067			.028		

TABLE V. Continued

T/C No.	X/L	Full Scale			Model Scale			ϕ	Skin Thickness	Mat'l	Remarks
		X ₀	Y ₀	Z ₀	X _{from nose}	Y	Z _{from FRL}				
69	1.015	1547.7	93.6	-	22.972	1.638	-	-	.0275	17-4	Fus. Bottom Sur.
70	1.03	1567.1			23.312				.0285		
71	1.045	1586.5			23.651				.029		
72	1.06	1605.0			23.977				.027		
169	.01	247.93	0		.226	0		180	.033		Top ϕ
170	.025	267.33			.565				.031		
171	.050	299.67			1.129				.035		
172	.075	322.0			1.694				.035		
173	.100	364.33			2.258				.034		
174	.125	396.66			2.283				.032		
175	.150	429.0			3.382				.032		
176	.160	441.93			3.613				.040		
177	.170	459.86			3.839				.040		
178	.180	467.79			4.064				.033		
179	.200	493.66			4.516				.036		
180	.225	522.0			5.258						
181	.250	552.0			5.700						
182	.40	752.32			9.053				.026		
183	.45	816.99			10.185				.026		
184	.50	881.65			11.316				.025		
185	.55	946.32			12.448				.026		
186	.60	1010.9			13.580				.025		
187	.65	1075.6			14.711				.024		
188	.70	1140.3			15.843				.025		
189	.75	1204.9			16.975				.0255		
190	.80	1269.6			18.106				.023		
191	-	-	6.00	452.0	-	.105	.910	-	.031		Window #1 Bott.
192			12.80	478.0		.224	1.365		.031		Right Top Right
193			21.20	464.9		.371	1.136		.030		Center
194			29.60	478.0		.518	1.365		.028		Top Left
195			34.30	452.0		.602	.910		.030		Bottom Right
196			40.40	452.0		.707	.910		.030		Window #2 Bottom Right
197			34.80	478.0		.609	1.365		.030		Top Right
198			44.80	464.9		.784	1.136		.030		Center

TABLE V. Continued

T/C No.	x/L	Full Scale		Model Scale				ϕ	Skin Thickness	Mat'l	Remarks
		X ₀	Y ₀	Z ₀	X from nose	Y	Z from FRL				
199	-	-	43.20	478.0	-	.756	1.365	-	.030	17-4	Window #2 Top LT
200			59.20	452.0		1.036	.910		.029		Bottom Left
201			62.40	464.9		1.092	1.136		.029		Window #3 Center
202	.05	299.6	-	303.6	1.132	-	-1.687	22	.040		Fus. Side CCL
203				325.6			-1.302	35	.035		MHB
204				342.4			-1.008	42.5	.033		UT
205				378.4			-0.378	60	.033		45T
206	.076	332.2		350.0	1.720		-0.875	-	.035		RCS
207	.10	364.3	39.20	-	2.263	.686	-	20	.038		
208			52.00			.910	-	24.5	.035		CCL
209			-	317.6		-	-1.442	39	.035		MHB
210				410.0			0.175	119	.037		
211	.15	429.0	40.80	-	3.395	.714	-	20	.035		
212			62.00	-		1.085	-	25.5	.025		CCL
213			79.20	304.8		1.386	-1.666	40	.030		CCL
214			83.60	314.4		1.463	-1.498	45.5	.038		MHB
215	.20	493.6	65.80	287.20	4.527	1.148	-1.974	31.5	.022		CCL
216			75.60	292.0		1.323	-1.890	35	.022		CCL
217			85.20	298.8		1.491	-1.771	40	.020		CCL
218			-	320.0		-	-1.400	51	.035		MHB
219			-	360.0			-0.700	67.5	.030		UT
220C			-	410.0			0.175	96.5	.031		Upper Fuselage
223	.40	752.32	-	-	9.053	-	-	157.5	.034		Upper Fuselage
224	.45	816.99			10.185				.034		
225	.50	881.65			11.316				.034		
226	.55	946.32			12.448				.035		
227	.60	1010.9			13.580				.034		
228	.65	1075.6			14.711				.0325		
229	.70	1140.8			15.843				.030		
230	.75	1204.9			16.975				.030		
231	.80	1269.6			18.106				.032		

TABLE V. Continued

[illegible]

TABLE V. Continued

Wing T/C Locations

T/C No.	$\frac{2Y}{B}$	Full Scale			Model Scale			Elevon T/C	Skin Thickness	Hat 1	Remarks
		X/C	X ₀	Y	X _{from L.E.}	Y					
73C	.30	0		140.5	0	2.459			.020	17-4	Wing Lower Sur.
74C		.05			.670				.020		
75C		.10			1.340				.026		
76C		.20			2.680				.031		
77C		.30			4.020				.030		
78C		.40			5.360				.031		
79C		.50			6.700				.030		
80C		.60			8.040				.030		
81C		.70			9.380				.031		
82C		.80			10.720				.030		
83		.90			12.060			X	.0305		
84	V	.95		Y	12.730	Y		X	.031		
86C	.40	0		187.3	0	3.277			.022		
87C		.05			.438				.031		
88C		.10			.876				.031		
89C		.20			1.753				.030		
90C		.30			2.629				.031		
91C		.40			3.506				.029		
92C		.60			5.258				.033		
93C		.70			6.135				.033		
94C		.75			6.573				.030		
95		.85			7.449				.0295		
96		.90			7.888			X	.026		
97	V	.95		Y	8.326	Y		X	.0275		
98C	.45	0		210.73	0	3.687		X	.030		
99C	.50	0		234.1	0	4.098			.027		
100C		.05			.364				.029		
101C		.10			.727				.030		
102C		.20			1.454				.031		
103C		.30			2.181				.031		
104C		.40			2.908				.031		
105C		.60			4.362				.032		
106C	V	.70		Y	5.089	Y			.031	V	V

TABLE V. Continued

Wing T/C Locations

T/C No.	$\frac{2Y}{B}$	Full Scale			Model Scale			Elevat. T/C	Skin Thickness	Hat'l	Remarks
		X/C	X ₀	Y ₀	X from L.E.	Y					
107	.50	.90		234.1	6.543	4.098		X	.0285	17-4	Wing Lower Sur.
108C	.55	0		257.6	0	4.508			.026		
109C	.60	0		281.0	0	4.918			.024		
110C		.025			.157				.029		
111C		.05			.314				.028		
112C		.075			.470				.030		
113C		.10			.627				.031		
114C		.20			1.254				.031		
115C		.30			1.862				.033		
116C		.40			2.509				.032		
117C		.50			3.136				.032		
118C		.60			3.763				.032		
119C		.70			4.390				.031		
120		.80			5.018			X	.030		
121		.85			5.331			X	.0305		
122		.90			5.645			X	.0295		
123	↓	.95		↓	5.958	↓		X	.0295		
124C	.65	0		309.4	0	5.327			.026		
125C	.70	0		327.8	0	5.737			.017		
126C		.025			.133				.024		
127C		.10			.531				.032		
128C		.20			1.061				.036		
129C		.30			1.592				.036		
130C		.40			2.123				.035		
131		.60			3.184				.035		
132	↓	.90		↓	4.776	↓		X	.031		
133	.75	0		352.8	0	6.174			.028		
134		.025			.121				.028		
135		.05			.241				.030		
136		.10			.483				.032		
137		.20			.965				.032		
138		.30			1.448				.035		
139		.40			1.930				.034		
140	↓	.60		↓	2.895	↓			.033	↓	

TABLE V. Continued

Wing T/C Locations

T/C No.	$\frac{2Y}{B}$	Full Scale			Model Scale			Elevon T/C	Skin Thickness	Mat'l	Remarks
		X/C	X ₀	Y ₀	X from L.E	Y					
141C	.75	.70		352.8	3.378	6.174			.031	17-4	Wing Lower Surf.
142		.80			3.860			X	.027		
143		.90			4.343			X	.0305		
144	Y	.95		Y	4.584	Y		X	.0295		
145	.80	0		374.6	0	6.557			.024		
146		.20			.868				.032		
147		.40			1.737				.031		
148	Y	.90		Y	3.908	Y		X	.0305		
149	.85	0		398.1	0	6.967			.028		
150		.20			.772				.031		
151	Y	.40		Y	1.544	Y			.030		
152	.90	0		421.4	0	7.376			.028		
153		.10			.338				.030		
154		.20			.675				.031		
155C		.30			1.013				.031		
156		.50			1.689				.031		
157C		.60			2.026				.032		
158		.80			2.702			X	.0285		
159	Y	.90		Y	3.039	Y		X	.028		
160	.95	0		444.9	0	7.786			.030		
161		.05			.138				.031		
162		.10			.276				.030		
163		.20			.552				.032		
164		.30			.827				.031		
165		.50			1.379				.030		
166		.70			1.931			X	.0295		
167		.80			2.206			X	.030		
168	Y	.90		Y	2.482	Y		X	.0295		
246	.400	.05		187.3	.438	3.278			.024		Wing Upper Surface
247		.20			1.753				.028		
248	Y	.40		Y	3.506	Y			.024		

TABLE V. Continued

WING T/C LOCATIONS

T/C No.	$\frac{2Y}{b}$	X/C	Full Scale		Model Scale		Elevation T/C	Skin Thickness	Mat'l	Remarks
			Xo	Yo	X From LE	Y				
249	.40	.60		187.3	5.258	3.278		.020	17-4	Wing Upper Surf.
250		.75			6.573			.030		
251		.80			7.011		x	.029		
252	y	.95			8.326		x	.025		
253	.60	.025		281.0	.157	4.918		.009		
254		.05			.314			.011		
255		.10			.627			.021		
256		.20			1.254			.025		
257		.40			2.509			.027		
258		.60			3.763			.024		
259		.75			4.703			.025		
260		.85			5.331		x	.027		
261	y	.95			5.958		x	.020		
262	.70	.20		327.83	1.061	5.737		.024		
263		.10			2.123			.025		
264	y	.90			4.776		x	.028		
265	.75	.10		352.25	.483	6.147		.023		
266		.20			.965			.023		
267		.40			1.930			.025		
268		.60			2.895			.022		
269		.80			3.860		x	.024		
270	y	.90			4.430		x	.028		
271	.80	.90		374.65	3.908	6.557	x	.029		
272	.90	.20		421.95	.675	7.376		.025		
273		.40			1.351			.025		
274	y	.60			2.026			.030		
275	.95	.20		444.91	.552	7.786		.023		
276		.40			1.103			.030		
277		.50			1.379			.025		
278		.70			1.930		x	.028		
279		.90			2.206		x	.029		
280	y	.90			2.481		x	.028	y	y

TABLE V. Continued

Q45 Pod T/C Locations

T/C No.	X/L	Full Scale			Model Scale		Skin Thickness	Mat'l	Remarks
		X _o	Y _o	Z _o	X _{from Pod LE}	Z _{from FRL}			
293		1313	109.7	427.5				17-4	
294			105.3	422.1					
295			103.1	419.7					
296			93.2	417.5					
297			85.3	416.6					
298		1325	106.9	428.6			.030		
299			98.77	489.2			.033		
300			67.73	511.3			.030		
301			48.78	506.7			.028		
302		1350	123.6	440.4			.024		
303			132.0	458.6			.030		
304			108.9	498.5			.032		
305			69.5	524.4			.029		
306			47.3	515.5			.031		
307			41.2	513.0					
308		1375	111.6	421.6			.016		
309			130.0	440.0			.023		
310			139.6	460.0			.035		
311			113.8	503.4			.028		
312			72.4	531.0			.031		
313		1400	48.28	523.4			.027		
314			39.2	510.2					
315		1425	115.0	415.1			.031		
316			133.7	437.7			.030		
317			147.7	466.3			.038		
318			119.7	508.6			.027		
319			77.34	536.5			.030		
320		1450	117.48	418.20			.023		
321			134.5	436.0			.029		
322			149.8	468.2			.033		
323			122.2	511.1			.025		
324			79.8	513.0					
325			48.3	526.6			.027		
326			41.9	510.0					

OAS Pod T/C Locations

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TABLE V. Continued
VERTICAL TAIL T/C LOCATIONS

T/C No.	Z/BV	X/C	Full Scale		Model Scale			Rudder T/C	Skin Thickness	Mat'l	Remarks
			Xo	Zo	X from L.E.	Z from FRL					
340	.10	.10							.0315	17-4	External Surface
341		.30							.0305		
342	y	.50							.0295		
343	.20	.20							.031		
344		.20							.0302		
345		.40							.0313		
346		.60							.031		
347	y	.80							.0315		
348	.30	.05							.0297		
349		.20							.031		
350		.40							.031		
351		.50							.0318		
352	y	.90						x	.030		
353	.40	.10							.0305		
354		.20							.0315		
355		.40							.0315		
356		.50							.0308		
357		.70						x	.029		
358	y	.90						x	.0298		
359	.50	.05							.0285		
360		.70						x	.028		
361	y	.90						x	.0315		
362	.60	.05							.029		
363		.10							.0295		
364		.20							.0303		
365		.40							.0318		
366		.50							.0315		
367		.70						x	.028		
368	y	.90						x	.030		
369	.70	.05							.0275		
370		.70						x	.0275		
371	y	.90						x	.029		
372	.80	.05							.029		
373		.10							.0293	y	y

TABLE V. Continued

VERTICAL TAIL T/C LOCATIONS

T/C No.	Z/bv	Full Scale			Model Scale			Rudder T/C	Skin Thickness	Mat'l	Remarks
		X/C	X ₀	Z ₀	X _{from} L.E.	Z _{from} FRL					
374	.80	.40							.031	17-4	External Surface
375		.50							.0325		
376		.70						X	.028		
377	Y	.90						X	.029		
378	.90	.10							.031		
379		.30							.0305		
380		.50							.032		
381		.70							.0308		
382	↓	.90							.0298		
383	.95	.30							.0313		
384		.50							.0315		
385	↓	.90							.033	↓	↓
397C									.0318	17-4	Speed Brake Cavity
398C									.0312	↓	↓
399C									.0312		
400C									.0312	↓	↓

Table V. (Continued)

BASE HEATSHIELD THERMOCOUPLE LOCATIONS

T/C NO.	FULL SCALE		MODEL SCALE		MAT'L	SKIN THICK- NESS	REMARKS
	Y ₀	Z ₀	Y	Z FROM			
428	0	430	0	0.525	15-5	.032	
429	-70	430	-1.225	0.525		.031	
430	0	320	0	-1.400		.0315	
431	-110	320	-1.925	-1.400		.0305	

Table V. (CONTINUED)

Lower Left SSME Nozzle T/C Locations
(Note Material)

T/C NO.	X FROM EXIT PLANE F.S.	X FROM EXIT PLANE M. S.	ϕ_n deg	MAT'L	SKIN THICK- NESS, in.	REMARKS
408	5.0	0.088	315	15-5	.030	Smooth Nozzle
409	↓	↓	0	↓	.031	
411	↓	↓	45	↓	.0315	
412	↓	↓	65	↓	.032	
413	↓	↓	90	↓	.032	
414	↓	↓	135	↓	.0325	
415	10.0	0.175	0	↓	.0305	
418	↓	↓	65	↓	.0315	
419	↓	↓	90	↓	.032	
420	15.0	0.263	0	↓	.029	
421	↓	↓	45	↓	.0295	
422	↓	↓	90	↓	.030	
423	25.0	0.438	0	↓	.0255	
424	↓	↓	45	↓	.026	
425	↓	↓	65	↓	.026	
426	↓	↓	90	↓	.026	
427	45.0	0.788	45	15.5	.027	

(428 thru 431 on heat shield)

Table V. (CONTINUED)

Lower Right SSME Nozzle T/C Locations
(Note Material)

432	5.0	0.088	315	17-4	.0289	Nozzle w/Hat Bands
433	↓	↓	0	↓	.0298	
434	↓	↓	25	↓	.0295	
435	↓	↓	45	↓	.0297	
436	↓	↓	65	↓	.0298	
437	↓	↓	90	↓	.0292	
438	↓	↓	135	↓	.0307	
439	10.0	0.175	0	↓	.0299	
440	↓	↓	25	↓	.0295	
441	↓	↓	45	↓	.0292	
442	↓	↓	65	↓	.0296	
443	↓	↓	90	↓	.0288	
444	15.42	0.270	0	↓	.0274	
445	↓	↓	25	↓	.0290	
446	↓	↓	45	↓	.0280	
447	↓	↓	65	↓	.0278	
448	↓	↓	90	↓	.0282	
449	25.0	0.438	0	↓	.0288	
450	↓	↓	25	↓	.0291	
451	↓	↓	45	↓	.0286	
452	↓	↓	65	↓	.0295	
453	↓	↓	90	↓	.0291	

TABLE V. Continued

Upper Wing T/C Locations

T/C No.	$\frac{2Y}{B}$	FULL SCALE		MODEL SCALE		SKIN THICKNESS IN.	MAT'L	REMARKS
		X_0	Y_0	X_0	Y_0			
460	.500	1373.54	234.17	24.036	4.097	.0280	17-4	Wing Upper Surf.
461	.550		257.587		4.507	.0305		
462	.600		281.004		4.917	.0290		
463	.650		304.421		5.327	.0290		
464	.700		327.838		5.737	.0300		
465	.725		339.546		5.942	.0290		
466	.750		351.255		6.146	.0270		
467	.775		362.963		6.351	.0240		
468	.800		374.672		6.556	.0240		
469	.825		386.380		6.761	.0240		
470	.850		398.089		6.966	.0250		
471	.875		409.797		7.171	.0260		
472	.925		433.214		7.581	.0270		
277	.950		444.923		7.786	.0250		
473	.975		456.631		7.991	.0200		

* SPAN = 936.68 in full scale

* T/C 274 REF. $2Y/B = .900$

T/C No.	$\frac{2Y}{B}$	FULL SCALE		MODEL SCALE		Elevon T/C	SKIN THICK.	MAT'L	REMARKS
		X/C	Y_0	X_{FRGHL}	Y_0				
476	.700	.60	327.83	3.125	5.737		.0300	17-4	Wing Upper Surf.
477	.750	.50	351.25	2.411	6.147		.0280		
478	.800	.10	374.69	.435	6.557		.0310		
479		.30		1.305			.0320		
480		.40		1.740			.0320		
481		.50		2.171			.0320		
482		-		24.33		X	.0250		
483	.825	-	386.00	24.33	6.756	X	.0280		
484		.85		3.485		X	.0250		
485		.90		3.690		X	.0290		
486	.850	.10	397.94	.386	6.964		.0320		
487		.30		1.155			.0300		
488		.40		1.544			.0300		
489		.50		2.000			.0300		
490		-		24.33		X	.0290		
491	.900	.90	421.50	3.033	7.376	X	.0290		

TABLE V. Continued

ADDITIONAL T/C LOCATIONS

T/C NO.	MODEL SCALE			SKIN THICKNESS	MATERIAL	LOCATION
	X ₀	Y ₀	Z ₀			
37A	4.553	0.252	-	.032	17-4	Lower Nose (LH)
38A	4.541	0.428	5.524	.033		
39A	4.515	-	5.696	.036		
41A	5.626	-	6.002	.031		
45A	6.361	1.041	5.266	.028		
46A	-	-	5.470	.030		
47A	-	1.230	5.673	.031		
65A	8.610	0.388	4.893	.030		
70A	8.610	1.681	5.388	.030		
107A	13.170	0.780	4.809	.024		Lower Mid Fuselage (LH)
114A	13.207	1.782	4.977	.031		
115A	13.107	1.962	-	.024		
116A	-	2.142	-	.020		
117A	-	2.322	-	.017		
118A	-	2.448	-	.025		
130A	15.356	1.837	4.882	.023		
131A	-	2.046	-	.029		
132A	-	2.250	-	.028		
133A	-	2.453	-	.026		
134A	-	2.663	-	.023		
135A	-	2.816	5.226	.027		
186A	24.329	1.819	4.681	.030		Lower Aft Fuselage
187A	24.925	1.883	-	.031		
188A	25.476	1.911	-	.028		
189A	25.923	1.981	-	.025		
196A	24.015	2.128	-	.028		
197A	24.480	2.459	-	.032		Lower Elevon (LH)
320A	24.576	-	5.565	.0295		Aft Fuselage & Elevon Split Line (LH)
321A	24.913	-	-	.0265		
322A	25.476	-	-	.027		
323A	26.038	-	-	.029		
336A	24.576	-	4.902	.030		
337A	24.913	-	-	.031		
338A	25.575	-	-	.028		
339A	26.138	-	-	.026		
341A	24.576	-	4.692	.030		
342A	24.913	-	4.692	.032		
343A	25.475	-	4.722	.031		
344A	26.038	-	4.759	.031		
249A	10.859	1.988	-	.030*		Upper Wing (RH)
250A	11.983	-	-	.028		
251A	13.107	-	-	.030		
252A	14.195	-	-	.022		
253A	17.545	1.970	-	.026		
254A	19.941	2.049	-	.018		
255A	22.330	2.047	-	.029		
256A	14.195	2.459	-	.020		

TABLE V. Concluded

ADDITIONAL T/C LOCATIONS

T/C NO.	MODEL SCALE			SKIN THICKNESS	MATERIAL	LOCATION
	X ₀	Y ₀	Z ₀			
257A	15.535	2.459	4.759	.027	17-4	Upper Wing (RH)
258A	16.875		-	.020		
259A	18.215		-	.016		
260A	19.555		-	.028		
261A	20.895		-	.025		
262A	22.235		-	.030		
263A	23.576		-	.029		
279A	24.080	5.138	-	.030*		
113A	27.268	0.928	-	.030		Lower Body Flap
191A	27.268	1.819	-	.028		
314A	27.274	0	5.122	.0255		Upper Body Flap
315A	28.017	0	-	.019		
316A	27.275	0.875	5.224	.0295		
317A	28.017	0.875	-	.028		
318A	27.275	1.837	5.122	.0295		
319A	28.017	1.697	-	.0295		
192A	26.994	-	5.064	.031		Body Flap, Edge
193A	27.265	-	5.092	.0305		
194A	27.639	-	5.106	.031		
368A	26.091	0	9.303	.0305		Vertical Tail
87A	9.799	1.101	7.781	.031		
86A	9.705	0.672	8.431	.026		
89A	9.717	1.709	6.654	.031		
102A	10.806	1.638	8.089	.023		
103A	10.806	0.867	8.523	.015		
122A	13.077	1.684	-	.0252		Upper Mid Fuselage (LH)
124A	13.107	1.128	-	.0308		
125A	13.077	0.868	-	.029		
126A	13.107	0.560	-	.0285		
127A	13.107	0.280	-	.0245		
139A	15.347	1.584	-	.0337		
140A	15.347	0.868	-	.0291		
404A	17.574	1.572	-	.0301		
405A	17.549	1.120	-	.0322		
406A	17.574	0.868	-	.0285		
407A		0.560	-	.0284		
408A		0.280	-	.0260		
410A	19.845	1.572	-	.0334		
155A	22.000	1.572	-	.0307		
156A	22.000	0.868	-	.0264		
157A	22.640	1.582	-	.0305		
158A		1.218	-	.0248		
159A		0.868	-	.0264		
160A		0.308	-	.0306		
36A	22.610	0.014	-	.0278		

*Normal Value; Skin Thickness Not Measured

TABLE VI. 56-Ø MODEL THERMOCOUPLE LOCATIONS

T/C No.	b, in.	X/L	Z _o
1	0.0215	0.275	437.5
2	0.0210	0.300	442.0
3	0.0217	0.325	445.0
4	0.0215	0.350	↓
5	0.0212	0.375	
6	0.0217	0.400	
7	0.0215	0.425	
8	0.0218	0.450	
9	0.0219	0.475	
10	0.0220	0.500	
11	0.0220	0.525	
12	0.0222	0.550	
13	0.0220	0.600	
14	0.0220	0.650	
15	0.0228	0.700	
16	0.0220	0.750	
17	0.0230	0.800	445.0
18	0.0190	0.285	420.0
19	0.0189	0.337	↓
20	0.0189	0.390	
21	0.0190	0.426	
22	0.0200	0.478	
23	0.0200	0.530	
24	0.0205	0.567	
25	0.0205	0.620	
26	0.0205	0.670	
27	0.0207	0.705	420.0

T/C No.	b, in.	X/L	Z _o
28	0.0203	0.750	420.0
29	0.0202	0.800	420.0
30	0.0160	0.824	420.0
31	0.0210	0.200	400.0
32	0.0199	0.225	↓
33	0.0199	0.250	
34	0.0186	0.275	
35	0.0180	0.300	
36	0.0190	0.325	
37	0.0192	0.350	
38	0.0190	0.375	
39	0.0189	0.400	
40	0.0188	0.425	
41	0.0195	0.450	
42	0.0200	0.475	↓
43	0.0200	0.500	
44	0.0190	0.525	
45	0.0200	0.550	
46	0.0203	0.600	
47	0.0210	0.650	
48	0.0202	0.700	
49	0.0205	0.750	
50	0.0208	0.800	
51	0.0180	0.850	
52	0.0180	0.875	
53	0.0160	0.900	
54	0.0170	0.925	400.0

T/C No.	b, in.	X/L	Z _o
55	0.0220	0.950	400.0
56	0.0170	0.300	372.5
57	0.0170	0.325	↓
58	0.0170	0.350	
59	0.0170	0.375	
60	0.0170	0.400	
61	0.0170	0.425	
62	0.0172	0.450	
63	0.0175	0.475	
64	0.0180	0.500	
65	0.0180	0.525	
66	0.0190	0.550	
67	0.0198	0.600	↓
68	0.0190	0.650	
69	0.0200	0.700	
70	0.0200	0.750	372.5
71	0.0195	0.200	355.0
72	0.0190	0.225	↓
73	0.0190	0.250	
74	0.0180	0.275	
75	0.0185	0.800	
76	0.0188	0.850	
77	0.0170	0.875	
78	0.0172	0.900	
79	0.0180	0.925	
80	0.0190	0.950	355.0

TABLE VII. 83-Ø MODEL THERMOCOUPLE LOCATIONS

T/C NO.	LOCATION	Z ₀ (INCHES)	X ₀ (INCHES)	X/ L			SKIN THICKNESS (INCHES)	
161	UPPER RCS NOZZLES ↓	-7.5	315.0	0.0619			0.0265	
162		-7.5	326.7	0.0709			0.0212	
163		-7.5	339.3	0.0807			0.0275	
164		-7.5	357.0	0.0943			0.0292	
165		-7.5	361.5	0.0978			0.0282	
166		-7.5	366.0	0.1013			0.0287	
167		-15.0	315.0	0.0619			0.0303	
168		-15.0	326.7	0.0709			0.0235	
169		-15.0	339.3	0.0807			0.0272	
170		-15.0	357.0	0.0943			0.0280	
171		-15.0	361.5	0.0978			0.0270	
172		-15.0	366.0	0.1013			0.0292	
173		-22.5	339.3	0.0807			0.0299	
174		-22.5	357.0	0.0943			0.0255	
175		-22.5	361.5	0.0978			0.0321	
176		-22.5	366.0	0.1013			0.0305	

TABLE VII. Continued

T/C NO.	LOCATION	RAY	LINE	SKIN THICKNESS (INCHES)	
177	CANOPY ↓	1	4	0.0308	
178		1	6	0.0440	
179		2	6	0.0469	
180		3	3	0.0292	
181		3	4	0.0304	
182		3	5	0.0319	
183		4	1	0.0281	
184		↓	2	0.0306	
185			3	0.0269	
186			4	0.0281	
187			5	0.0298	
188		↓	6	0.0592	
189		5	3	0.0319	
190		5	4	0.0322	
191		5	5	0.0342	
192		6	2	0.0316	
193		6	6	0.0431	
194		7	3	0.0289	
195		7	4	0.0276	
196		7	5	0.0294	
197		8	1	0.0222	
198		↓	2	0.0260	
199			3	0.0301	
200		↓	4	0.0319	

TABLE VII. Continued

T/C NO.	LOCATION	RAY	LINE	SKIN THICKNESS (INCHES)	
201	CANOPY	8	5	0.0316	
202		8	6	0.0283	
203		9	3	0.0278	
204		9	4	0.0348	
205		9	5	0.0349	
206		10	2	0.0297	
207		10	6	0.0300	
208		11	3	0.0301	
209		11	4	0.0308	
210		11	5	0.0299	
211		12	1	0.0272	
212			2	0.0302	
213			3	0.0297	
214			4	0.0314	
215			5	0.0318	
216		↓	6	0.0318	
217			7	0.0319	
218		13	3	0.0309	
219		↓	4	0.0315	
220		↓	5	0.0308	
221		14	1	0.0271	
222		↓	2	0.0276	
223		↓	6	0.0304	

TABLE VII. CONTINUED

T/C NO.	LOCATION	X ₀ (INCHES)	Y ₀ (INCHES)	X/L	SKIN THICKNESS (INCHES)
	ESCAPE HATCH & WINDOW				
224		485.0	-7.6	0.1933	0.0233
225		490.0	-7.6	0.1972	0.0268
226		485.0	-18.0	0.1933	0.0236
227		490.0	-18.0	0.1972	0.0328
228		485.0	-30.6	0.1933	0.0288
229		490.0	-30.6	0.1972	0.0288
230		547.9	-10.8	0.2425	0.0314
231		560.0	-10.6	0.2519	0.0324
232		567.0	-11.0	0.2567	0.0303
233		572.0	-11.0	0.2606	0.0340
234		547.5	-23.0	0.2416	0.0305
235		559.5	-23.0	0.2509	0.0305
236		567.0	-23.0	0.2567	0.0328
237		572.0	-23.0	0.2606	0.0315

TABLE VII. Continued

T/C No.	Z _o	X _o	X/L	Skin Thickness	T/C No.	Z _o	X _o	X/L	Skin Thickness
					MHB LINE				
					300	396.663	0.125	0.0252	
					301	428.995	0.150	0.0280	
					302	461.3275	0.175	0.0306	
					303	493.660	0.200	0.0280	
					304	525.993	0.225	0.0205	
					305	558.325	0.250	0.0283	
					306	590.658	0.275	0.0340	
					307	655.323	0.325	0.0245	
					308	719.988	0.375	0.0290	
					309	784.318	0.425	0.0295	
					310	849.318	0.475	0.0272	
					311	355.0	493.66	0.200	0.0230
					312	↑	525.993	0.225	0.0250
					313	↑	558.325	0.250	0.0296
					314	↑	590.658	0.275	0.0279
					315	↑	622.990	0.300	0.0308
					316	↑	655.323	0.325	0.0279
					317	↑	687.655	0.350	0.0311
					318	↑	719.988	0.375	0.0302
					319	↑	752.320	0.400	0.0278
					320	↑	784.653	0.425	0.0285
					321	↓	816.985	0.450	0.0276
					322	355.0	849.318	0.475	0.0260
					323	378.0	493.660	0.200	0.0259
					324	↑	525.993	0.225	0.0268
					325	↑	558.325	0.250	0.0279
					326	↑	590.658	0.275	0.0261
					327	↑	622.990	0.300	0.0286
					328	↑	655.323	0.325	0.0249
					329	↑	687.655	0.350	0.0306
					330	↑	719.988	0.375	0.0282
					331	↑	752.320	0.400	0.0269
					332	↓	784.653	0.425	0.0276
					333	378.0	816.985	0.450	0.0273
					334	400.0	525.993	0.225	0.0255
					335	↑	558.325	0.250	0.0289
					336	↑	590.658	0.275	0.0262
					337	↑	622.990	0.300	0.0308
					338	↑	655.323	0.325	0.0269
					339	↓	687.655	0.350	0.0302
BOTTOM CENTERLINE									
273	236.25	0.0010	0.0269						
274	237.37	0.0018	0.0272						
275	240.25	0.0041	0.0277						
276	244.00	0.0070	0.0280						
277	248.28	0.0103	0.0279						
278	254.40	0.0150	0.0283						
279	260.75	0.0199	0.0232						
280	265.00	0.0232	0.0210						
281	269.00	0.0263	0.0190						
282	273.63	0.0299	0.0230						
283	278.75	0.0338	0.0231						
284	284.25	0.0381	0.0230						
285	288.50	0.0414	0.0230						
286	293.5	0.0452	0.0240						
287	300.00	0.0503	0.0230						
288	364.330	0.100	0.0280						
289	428.995	0.150	0.0300						
290	493.660	0.200	0.0260						
291	558.325	0.250	0.0273						
292	622.990	0.300	0.0275						
293	687.655	0.350	0.0261						
294	752.320	0.400	0.0276						
295	816.985	0.450	0.0292						
MHB LINE									
296	267.333	0.025	0.0292						
297	299.665	0.050	0.0268						
298	331.998	0.075	0.0270						
299	364.330	0.100	0.0278						

TABLE VII. Continued

T/C No.	Z ₀	X ₀	X/L	Skin Thickness	T/C No.	Z ₀	X ₀	X/L	Skin Thickness
MHB LINE (CONT'D)					TOP CENTERLINE (CONT'D)				
340	400.0	719.988	0.375	0.0300	374	254.50	0.0151	0.0293	
341	↑	752.320	0.400	0.0279	375	258.50	0.0182	0.0306	
342	↓	784.653	0.425	0.0270	376	262.75	0.0215	0.0295	
343	400.0	816.985	0.450	0.0276	377	266.75	0.0246	0.0288	
344	425.0	655.335	0.325	0.031	378	271.00	0.0278	0.0261	
345	↑	687.655	0.350	0.030	379	313.75	0.0609	0.0275	
346	↑	719.988	0.375	0.030	380	318.50	0.0646	0.023	
347	↑	752.320	0.400	0.030	381	323.50	0.0684	0.029	
348	↑	784.653	0.425	0.032	382	328.25	0.0721	0.0293	
349	↓	816.985	0.450	0.031	383	333.25	0.0760	0.030	
350	425.0	850.600	0.4760	0.033	384	338.00	0.0796	0.0312	
CCL LINE					385	358.00	0.0953	0.0288	
351		299.665	0.050	0.0271	386	362.60	0.0989	0.0265	
352		331.998	0.075	0.0269	387	366.75	0.1019	0.0275	
353		364.330	0.100	0.0263	388	385.00	0.1160	0.0213	
354		396.663	0.125	0.0268	389	389.50	0.1195	0.0325	
355		428.995	0.150	0.0273	390	394.25	0.1231	0.0353	
356		461.328	0.175	0.0311	391	399.00	0.1268	0.0357	
357		493.660	0.200	0.0262	392	403.75	0.1305	0.0384	
358		590.658	0.275	0.032	393	408.00	0.1338	0.0379	
359		622.990	0.300	0.0310	394	413.00	0.1376	0.0376	
360		655.323	0.325	0.030	395	417.50	0.1411	0.0335	
361		687.655	0.350	0.0305	396	422.25	0.1448	0.0332	
362		719.988	0.375	0.030	397	426.75	0.1483	0.0332	
363		752.320	0.400	0.032	398	431.50	0.1519	0.0315	
364		784.653	0.425	0.032	399	436.25	0.1556	0.0299	
365		816.985	0.450	0.032	400	439.63	0.1582	0.0302	
366		850.600	0.4760	0.0315	401	443.00	0.1608	0.0290	
TOP CENTERLINE					402	446.50	0.1635	0.0279	
367		235.000	0.000	0.0263	403	450.25	0.1664	0.0272	
368		236.000	0.0008	0.0284	404	453.75	0.1691	0.0271	
369		237.500	0.0019	0.0262	405	457.50	0.1720	0.0271	
370		239.750	0.0037	0.0273	406	461.00	0.1748	0.0271	
371		242.500	0.0058	0.0219	407	463.75	0.1769	0.0289	
372		246.250	0.0087	0.0268	408	466.75	0.1800	0.0328	
373		250.250	0.0118	0.0293	409	471.75	0.1831	0.0322	
					410	476.00	0.1863	0.0322	
					411	480.00	0.1894	0.0336	
					412	474.75	0.1931	0.0312	

TABLE VII Continued

T/C NO.	LOCATION	Z_0 (INCHES)	X_0 (INCHES)	X/L	θ (DEGREES)	SKIN THICKNESS (INCHES)
413	TOP CENTERLINE		490.00	0.1972		0.0300
414			500.00	0.2049		0.0300
415			525.993	0.2250		0.0221
416			558.325	0.250		0.0262
417			590.658	.275		0.0330
418			622.990	.300		0.0350
419			655.323	.325		0.0330
420			687.655	.350		0.0322
421			719.988	.375		0.0329
422			752.320	.400		0.0328
423			784.652	.425		0.0316
424			816.985	.450		0.0335
425			849.318	.475		0.034
426	PILOT RIGIT (Cross		270	.027	350	0.0206
427	Section)				343	0.0219
428					335	0.0239
429					324	0.0259
430					320	0.0279
431					310	0.0285
432					303	0.0288
433					295	0.0288
434					287.5	0.0292
435					280	0.0293
436					273	0.0295
437			300	.050	352.5	0.025
438					347	0.0258
439					339	0.0249
440					334	0.024

TABLE VII. Continued

T/C NO.	LOCATION	Z_0 (INCHES)	X_0 (INCHES)	X/L	θ (DEGREES)	SKIN THICKNESS (INCHES)
441	PILOT RIGHT (Cross Section) ↓		300	.050	327.5	0.024
442			↓	↓	321.5	0.028
443			↓	↓	318	0.0283
444			↓	↓	311	0.0270
445			↓	↓	306	0.026
446			↓	↓	300	0.0245
447			↓	↓	295	0.0225
448			↓	↓	289	0.0278
449			↓	↓	284	0.0258
450			▼	▼	274	0.0190
451			500	.2049	355	0.025
452			↓	↓	351	0.023
453			↓	↓	346	0.023
454			↓	↓	342	0.023
455			↓	↓	338	0.023
456			↓	↓	333	0.023
457			↓	↓	330	0.023
458			↓	↓	326	0.024
459			↓	↓	322	0.026
460			↓	↓	320	0.026
461			↓	↓	317	0.027
462			↓	↓	313.5	0.027
463			↓	↓	310.5	0.026
464			↓	↓	307	0.025
465			↓	↓	305	0.0263
466			↓	↓	303	0.027
467			↓	↓	300.5	0.0265
468			↓	↓	298	0.025

TABLE VII. Concluded

T/C NO.	LOCATION	Z_0 (INCHES)	X_0 (INCHES)	X/L	θ (DEGREES)	SKIN THICKNESS (INCHES)
469	PILOT RIGHT (Cross Section) ↓		500	.2049	295	0.028
470			↓	↓	292	0.023
471					290	0.023
472					287	0.021
473					284	0.0275
474					278	0.023
475					275.5	0.023
476					273	0.024
477					270	0.0253
501			260.75	.0200	348.5	0.022
502			↓	↓	338.2	0.021
503					328.7	0.025
504					320.5	0.028
505					312.3	0.027
506					303.5	0.025
507					296.5	0.021
508					287	0.019
509					278.6	0.023
510					270.0	0.023
511					262	0.026

TABLE VIII. THERMOCOUPLE CONSTANT SETS

CONSTANT SET 111
MODEL: 60-Ø, OH-84B

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	340	X/C	Z/BV	34	373	X/C	Z/BV	67	320	X ₀	Y ₀
2	341			35	374			68	321		
3	342			36	375			69	322		
4	343			37	376			70	323		
5	344			38	377			71	325		
6	345			39	378			72	327		
7	346			40	379			73	328		
8	347			41	380			74	329		
9	348			42	381			75	330		Y
10	349			43	382			76	331		Y ₀
11	350			44	383			77	332		Z ₀
12	351			45	384	Y	Y	78	333		
13	352			46	385	X/C	Z/BV	79	334		Y
14	353			47	298	X ₀	Y ₀	80	335		Z ₀
15	354			48	299			81	336		Y ₀
16	355			49	300			82	337		Z ₀
17	356			50	301			83	338	Y	
18	357			51	302			84	339	X ₀	Y
19	358			52	303			85	368A	X/L	Z ₀
20	359			53	304			86	397C	-	-
21	360			54	305			87	398C	-	-
22	361			55	306			88	399C	-	-
23	362			56	308			89	400C	-	-
24	363			57	309			90	110C	X/C	Y ₀
25	364			58	310			91	111C		
26	365			59	311			92	112C		
27	366			60	312			93	113C		
28	367			61	313			94	114C		
29	368			62	315			95	115C		
30	369			63	316			96	116C	Y	Y
31	370			64	317			97	117C	X/C	Y ₀
32	371	Y	Y	65	318	Y	Y				
33	372	X/C	Z/BV	66	319	X ₀	Y ₀				

TABLE VIII. (Continued)
 CONSTANT SET 122
 MODEL: 60-0, OH-84B

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	1	X/L	ϕ	34	182	X/L	ϕ	67	88A	X/L	Y
2	2			35	223			68	89A		
3	3			36	234			69	103A		
4	4	X/L	ϕ	37	388			70	102A		
5	120	X/C	Y	38	184			71	127A		
6	121			39	225			72	126A		
7	122			40	236			73	125A		
8	123			41	390			74	124A		
9	253			42	186			75	122A		
10	254			43	188			76	140A		
11	255			44	229			77	139A		
12	256			45	240			78	408A		
13	257			46	394			79	407A		
14	258			47	190			80	406A		
15	259			48	231			81	405A		
16	260			49	242			82	404A		
17	261	X/C	Y	50	279A			83	410A		
18	460	2Y/B	X ₀	51	249A			84	156A		
19	461			52	250A			85	155A		
20	462			53	251A			86	36A		
21	463			54	252A			87	160A		
22	464			55	253A			88	159A		
23	465			56	254A			89	158A		
24	466			57	255A			90	157A		Y
25	467			58	256A			91	320A		Z
26	468			59	257A			92	321A		
27	469			60	258A			93	322A		
28	470			61	259A			94	323A	X/L	Z
29	471			62	260A			95	118C	X/C	Y
30	274			63	261A			96	119C	X/C	Y
31	472			64	262A			97	288C	X/L	Z
32	277			65	263A						
33	473	2Y/B	X ₀	66	87A	X/L	Y				

TABLE VIII. (Continued)

CONSTANT SET 133
MODEL: 60-0, OH-84B

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	5	X/L	φ	34	218	X/L	Z	67	70A	X/L	Y
2	6		φ	35	219		Z	68	107A		
3	7		φ	36	23		φ	69	114A		
4	44		Y	37	24			70	115A		
5	202		Z	38	25			71	116A		
6	203			39	26	X/L	φ	72	117A		
7	204			40	191	Y	Z	73	118A		
8	205			41	192			74	130A		
9	8		φ	42	193			75	131A		
10	206		Z	43	194			76	132A		
11	9		φ	44	195			77	133A		
12	10			45	196			78	134A		
13	11			46	197			79	135A		
14	12		φ	47	198			80	220C		
15	45		Y	48	199			81	27C		
16	207		Y	49	200			82	28C		
17	208		Y	50	201	Y	Z	83	50C		
18	209		Z	51	164	X/C	Y	84	62C		
19	13		φ	52	165			85	29C		
20	14			53	166			86	30C		
21	15			54	167			87	51C		
22	16		φ	55	168	X/C	Y	88	63C		
23	211		Y	56	18	X/L	φ	89	31C		
24	212			57	278	X/C	Y	90	32C		
25	213			58	279	X/C		91	52C		
26	214		Y	59	280	X/C		92	64C		
27	21		φ	60	37A	X/L		93	33C		
28	17		φ	61	38A		Y	94	34C		
29	48		Y	62	39A		Z	95	53C		
30	19		φ	63	45A		Y	96	65C		
31	215		Y	64	46A		Z	97	35C		
32	216		Y	65	47A		Y				
33	217	X/L	Y	66	65A	X/L	Y			X/L	φ

TABLE VIII. (Continued)

CONSTANT SET 211
MODEL: 60-0 OH84B

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	432	XN	ϕ_N	34	60	X/L	Y_0	67	188A	X/L	Y_0
2	433			35	69			68	189A		Y_0
3	434			36	70			69	196A		Y_0
4	435			37	71	∇		70	320A		Z_0
5	436			38	72	X/L		71	321A		
6	437			39	164	X/C		72	322A		
7	438			40	165			73	323A		
8	439			41	166			74	336A		
9	440			42	167			75	337A		
10	441			43	168			76	338A		
11	442			44	156			77	339A		
12	443			45	158			78	341A		
13	444			46	159			79	342A		
14	445			47	146			80	343A	∇	
15	446			48	147			81	344A	Z_0	
16	447			49	148			82	34C	ϕ	
17	448			50	138			83	35C		
18	449			51	139			84	36C		
19	450			52	140	∇		85	37C		
20	451			53	142	X/C		86	38C	∇	
21	452	∇	∇	54	314A	X/L		87	39C	ϕ	
22	453	XN	ϕ_N	55	315A			88	54C	Y_0	
23	428	Y_0	Z_0	56	316A			89	55C		
24	429			57	317A			90	56C		
25	430	∇	∇	58	318A			91	66C		
26	431	Y_0	Z_0	59	319A			92	67C	∇	
27	40	X/L	ϕ	60	113A		∇	93	68C	∇	Y_0
28	41			61	191A		Y_0	94	288C	X/L	Z_0
29	42		∇	62	192A		Z_0	95	155C	X/C	Y_0
30	43		ϕ	63	193A		Z_0	96	157C	X/C	Y_0
31	57		Y_0	64	194A		Z_0	97	141C	X/C	Y_0
32	58	∇	Y_0	65	186A	∇	Y_0				
33	59	X/L	Y_0	66	187A	X/L	Y_0				

TABLE VIII. (Continued)

CONSTANT SET 222
MODEL: 60-Ø, OH-84B

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	143	X/C	Y ₀	34	464	2Y/B	X ₀	67	491	2Y/B	X/C
2	144			35	264	X/C	Y ₀	68	472	2Y/B	X ₀
3	131			36	465	2Y/B	X ₀	69	275	X/C	Y ₀
4	132			37	265	X/C	Y ₀	70	276	X/C	Y ₀
5	120			38	266	X/C	Y ₀	71	277	2Y/B	X ₀
6	121			39	267	X/C	Y ₀	72	278	X/C	Y ₀
7	122			40	477	2Y/B	X ₀	73	279	X/C	Y ₀
8	123			41	268	X/C	Y ₀	74	280	X/C	Y ₀
9	107			42	466	2Y/B	X ₀	75	473	2Y/B	X ₀
10	95			43	269	X/C	Y ₀	76	253	X/C	Y ₀
11	96			44	270	X/C	Y ₀	77	254	X/C	
12	97			45	467	2Y/B	X ₀	78	255	X/C	
13	83			46	478		X/C	79	197A	X/L	
14	84			47	479			80	279A	X/L	
15	247			48	480		✓	81	130C	X/C	
16	248			49	481		X/C	82	116C		
17	249			50	468	✓	X ₀	83	117C		
18	250			51	482	2Y/B	X	84	118C		
19	251	✓	✓	52	271	X/C	Y ₀	85	119C		
20	252	X/C	Y ₀	53	469	2Y/B	X ₀	86	104C		
21	460	2Y/B	X ₀	54	483		X	87	105C		
22	461	2Y/B	X ₀	55	484		X/C	88	106C		
23	256	X/C	Y ₀	56	485			89	92C		
24	257			57	486			90	93C		
25	258	✓	✓	58	487			91	94C		
26	259	X/C	Y ₀	59	488		✓	92	78C		
27	462	2Y/B	X ₀	60	489		X/C	93	79C		
28	260	X/C	Y ₀	61	470		X ₀	94	80C		
29	261	X/C	Y ₀	62	490	✓	X	95	81C	✓	✓
30	463	2Y/B	X ₀	63	471	2Y/B	X ₀	96	82C	X/C	Y ₀
31	262	X/C	Y ₀	64	272	X/C	Y ₀	97			
32	263	X/C	Y ₀	65	273	X/C	Y ₀				
33	476	2Y/B	X/C	66	274	2Y/B	X ₀				

TABLE VIII. (Continued)

CONSTANT SET 311
MODEL: 56-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	1	X/L	Z	34	34	X/L	Z	67	67	X/L	Z
2	2			35	35			68	68		
3	3			36	36			69	69		
4	4			37	37			70	70		
5	5			38	38			71	71		
6	6			39	39			72	72		
7	7			40	40			73	73		
8	8			41	41			74	74		
9	9			42	42			75	75		
10	10			43	43			76	76		
11	11			44	44			77	77		
12	12			45	45			78	78		
13	13			46	46			79	79		
14	14			47	47			80	80	↓ X/L	↓ Z
15	15			48	48			81			
16	16			49	49			82			
17	17			50	50			83			
18	18			51	51			84			
19	19			52	52			85			
20	20			53	53			86			
21	21			54	54			87			
22	22			55	55			88			
23	23			56	56			89			
24	24			57	57			90			
25	25			58	58			91			
26	26			59	59			92			
27	27			60	60			93			
28	28			61	61			94			
29	29			62	62			95			
30	30			63	63			96			
31	31			64	64			97			
32	32	↓	↓	65	65	↓	↓				
33	33	X/L	Z	66	66	X/L	Z				

TABLE VIII. (Continued)
 CONSTANT SET 411
 MODEL: 83-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	273	X/L	ϕ	34	307	X/L	Z	67	345	X/L	Z
2	274			35	308			68	346		
3	275			36	309			69	347		
4	276			37	311			70	348		
5	277			38	312			71	351		
6	278			39	313			72	352		
7	279			40	314			73	353		
8	280			41	315			74	354		
9	281			42	316			75	355		
10	282			43	317			76	356		
11	283	X/L	ϕ	44	318	X/L	Z	77	357	X/L	Z
12	284			45	319			78	358		
13	285			46	320			79	359		
14	286			47	323			80	360		
15	287			48	324			81	361		
16	288			49	325			82	362		
17	289			50	326			83	363		
18	290			51	327			84	364		
19	291			52	328			85	427		
20	292			53	329			86	428		
21	293	X/L	ϕ	54	330	X/L	Z	87	429	X/L	ϕ
22	294			55	331			88	430		
23	296			56	332			89	431		
24	297			57	334			90	432		
25	298			58	335			91	433		
26	299			59	336			92	434		
27	300			60	337			93	435		
28	301			61	338			94	436		
29	302			62	339			95	437		
30	303			63	340			96	438		
31	304	X/L	Z	64	341	X/L	Z	97			
32	305			65	342						
33	306			66	344						

TABLE VIII. (Continued)

CONSTANT SET 422
MODEL: 83-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	439	X/L	φ	34	472	X/L	φ	67	394	X/L	φ
2	440			35	473			68	395		
3	441			36	474			69	396		
4	442			37	475			70	397		
5	443			38	476			71	398		
6	444			39	477			72	399		
7	445			40	367			73	400		
8	446			41	368			74	401		
9	447			42	369			75	402		
10	448			43	370			76	403		
11	449			44	371			77	404		
12	450			45	372			78	405		
13	451			46	373			79	406		
14	452			47	374			80	407		
15	453			48	375			81	408		
16	454			49	376			82	409		
17	455			50	377			83	410		
18	456			51	378			84	411		
19	457			52	379			85	412		
20	458			53	380			86	413		
21	459			54	381			87	414		
22	460			55	382			88	415		
23	461			56	383			89	416		
24	462			57	384			90	417		
25	463			58	385			91	418		
26	464			59	386			92	419		
27	465			60	387			93	420		
28	466			61	388			94	421		
29	467			62	389			95	422	↓	↓
30	468			63	390			96	423	X/L	φ
31	469			64	391			97			
32	470	↓	↓	65	392	↓	↓				
33	471	X/L	φ	66	393	X/L	φ				

TABLE VIII. (Continued)

CONSTANT SET 511
MODEL: 60-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	340	X/C	Z/BV	34	373	X/C	Z/BV	67	320	X ₀	Y ₀
2	341			35	374			68	321		
3	342			36	375			69	322		
4	343			37	376			70	323		
5	344			38	377			71	325		
6	345			39	378			72	327		
7	346			40	379			73	328		
8	347			41	380			74	329		
9	348			42	381			75	330		✓
10	349			43	382			76	331		Y ₀
11	350			44	383			77	332		Z ₀
12	351			45	384	↓	↓	78	333		Z ₀
13	352			46	385	X/C	Z/BV	79	334		Z ₀
14	353			47	298	X ₀	Y ₀	80	336		Y ₀
15	354			48	299			81	337		Z ₀
16	355			49	300			82	338	↓	Z ₀
17	356			50	301			83	339	X ₀	Z ₀
18	357			51	302			84	249A	X/L	Y ₀
19	358			52	303			85	250A		
20	359			53	304			86	251A		
21	360			54	305			87	252A		
22	361			55	306			88	253A		
23	362			56	308			89	254A		
24	363			57	309			90	255A		
25	364			58	310			91	256A		
26	365			59	311			92	257A		
27	366			60	312			93	258A		
28	367			61	313			94	259A		↓
29	368			62	315			95	260A		Y ₀
30	369			63	316			96	368A	X/L	Z ₀
31	370			64	317			97			
32	371	↓	↓	65	318	↓	↓				
33	372	X/C	Z/BV	66	319	X ₀	Y ₀				

TABLE VIII. (Continued)

CONSTANT SET 522
MODEL: 60-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	4	X/L	ϕ	34	268	X/C	Y_0	67	280	X/C	Y_0
2	7	X/L	ϕ	35	466	2Y/B	X_0	68	473	2Y/B	X_0
3	227	X/L	ϕ	36	269	X/C	Y_0	69	169	X/L	ϕ
4	246	X/C	Y	37	270	X/C	Y_0	70	170		
5	247			38	467	2Y/B	X_0	71	171		
6	248			39	478		X/C	72	172		
7	249			40	479			73	173		
8	250			41	480		\downarrow	74	174		
9	251	\downarrow	\downarrow	42	481		X/C	75	175		
10	252	X/C	Y	43	468	\downarrow	X_0	76	176		
11	460	2Y/B	X_0	44	482	2Y/B	X/C	77	177		
12	461	2Y/B	X_0	45	271	X/C	Y_0	78	178		
13	253	X/C	Y_0	46	469	2Y/B	X_0	79	179		
14	254			47	483		X/C	80	182		
15	255			48	484			81	183		
16	256			49	485			82	184		
17	257			50	486			83	185		
18	258	\downarrow	\downarrow	51	487			84	186		
19	259	X/C	Y_0	52	488		\downarrow	85	187		
20	462	2Y/B	X_0	53	489		X/C	86	188		
21	260	X/C	Y_0	54	470		X_0	87	189		\downarrow
22	261	X/C	Y_0	55	490	\downarrow	X_0	88	190		ϕ
23	463	2Y/B	X_0	56	471	2Y/B	X_0	89	87A		Y_0
24	262	X/C	Y_0	57	272	X/C	Y_0	90	88A		
25	263	X/C	Y_0	58	273	X/C	Y_0	91	89A		
26	476	2Y/B	X/C	59	274	X/C	Y_0	92	103A		
27	464	2Y/B	X/C	60	491	2Y/B	X/C	93	102A		
28	264	X/C	Y_0	61	472	2Y/B	X_0	94	261A		
29	465	2Y/B	X/C	62	275	X/C	Y_0	95	262A	\downarrow	\downarrow
30	265	X/C	Y_0	63	276			96	263A	X/L	Y_0
31	266	X/C	Y_0	64	277			97			
32	267	X/C	Y_0	65	278	\downarrow	\downarrow				
33	477	2Y/B	X/C	66	279	X/C	Y_0				

TABLE VIII. (Continued)
 CONSTANT SET 533
 MODEL: 60-0, IH-102

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	223	X/L	ϕ	34	198	Y_0	Z_0	67	404A	X/L	Y_0
2	234		ϕ	35	199			68	410A		
3	388		Z_0	36	200			69	156A		
4	224		ϕ	37	201	Y_0		70	155A		
5	235		ϕ	38	202	X/L		71	36A		
6	389		Z_0	39	203			72	160A		
7	225		ϕ	40	204			73	159A		
8	236		ϕ	41	205			74	158A		
9	390		Z_0	42	206			75	157A		Y_0
10	226		ϕ	43	207			76	320A		Z_0
11	237		ϕ	44	208			77	321A		
12	391		Z_0	45	209			78	322A		
13	238		ϕ	46	210			79	323A		
14	392		Z_0	47	211			80	336A		
15	228		ϕ	48	212			81	337A		
16	239		ϕ	49	213			82	338A		
17	393		Z_0	50	214			83	339A		
18	229		ϕ	51	215			84	341A		
19	240		ϕ	52	216			85	342A		
20	394		Z_0	53	217			86	343A		
21	230		ϕ	54	218			87	344A		Z_0
22	241		ϕ	55	219			88	37A		Y_0
23	395		Z_0	56	127A			89	38A		Y_0
24	231		ϕ	57	126A			90	39A		Z_0
25	242		ϕ	58	125A			91	45A		Y_0
26	396	X/L	Z_0	59	124A			92	46A		Z_0
27	191	Y_0	Z_0	60	122A			93	47A		Y_0
28	192			61	140A			94	70A		Y_0
29	193			62	139A			95	220C		Z_0
30	194			63	408A			96	288C	X/L	Z_0
31	195			64	407A			97			
32	196			65	406A						
33	197	Y_0	Z_0	66	405A	X/L	Y_0				

TABLE VIII. (Continued)

CONSTANT SET 711

MODEL: 60-0, 0H-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	340	X/C	Z/BV	34	373	X/C	Z/BV	67	320	X ₀	Y ₀
2	341			35	374			68	321		
3	342			36	375			69	322		
4	343			37	376			70	323		
5	344			38	377			71	325		
6	345			39	378			72	327		
7	346			40	379			73	328		
8	347			41	380			74	329		
9	348			42	381			75	330		Y
10	349			43	382			76	331		Y ₀
11	350			44	383			77	332		Z ₀
12	351			45	384	↓	↓	78	333		↓
13	352			46	385	X/C	Z/BV	79	334		↓
14	353			47	298	X ₀	Y ₀	80	335		Z ₀
15	354			48	299			81	336		Y ₀
16	355			49	300			82	337		Z ₀
17	356			50	301			83	338	↓	↓
18	357			51	302			84	339	X ₀	↓
19	358			52	303			85	368A	X/L	Z ₀
20	359			53	304			86	397C	-	-
21	360			54	305			87	398C	-	-
22	361			55	306			88	399C	-	-
23	362			56	308			89	400C	-	-
24	363			57	309			90	110C	X/C	Y ₀
25	364			58	310			91	111C		
26	365			59	311			92	112C		
27	366			60	312			93	113C		
28	367			61	313			94	114C		
29	368			62	315			95	115C		
30	369			63	316			96	116C	↓	↓
31	370			64	317			97	117C	X/C	Y ₀
32	371	↓	↓	65	318	↓	↓				
33	372	X/C	Z/BV	66	319	X ₀	Y ₀				

TABLE VIII. (Continued)

CONSTANT SET 722

MODEL: 60-0, OH-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	1	X/L	ϕ	34	182	X/L	ϕ	67	88A	X/L	Y
2	2			35	223			68	89A		
3	3	\downarrow	\downarrow	36	234			69	103A		
4	4	X/L	ϕ	37	388			70	102A		
5	120	X/C	Y	38	184			71	127A		
6	121			39	225			72	126A		
7	122			40	236			73	125A		
8	123			41	390			74	124A		
9	253			42	186			75	122A		
10	254			43	188			76	140A		
11	255			44	229			77	139A		
12	256			45	240			78	408A		
13	257			46	394			79	407A		
14	258			47	190			80	406A		
15	259			48	231		\downarrow	81	405A		
16	260	\downarrow	\downarrow	49	242		ϕ	82	404A		
17	261	X/C	Y	50	279A		Y	83	410A		
18	460	2Y/B	X ₀	51	249A			84	156A		
19	461			52	250A			85	155A		
20	462			53	251A			86	36A		
21	463			54	252A			87	160A		
22	464			55	253A			88	159A		
23	465			56	254A			89	158A		\downarrow
24	466			57	255A			90	157A		Y
25	467			58	256A			91	320A		Z
26	468			59	257A			92	321A		
27	469			60	258A			93	322A	\downarrow	\downarrow
28	470			61	259A			94	323A	X/L	Z
29	471			62	260A			95	118C	X/C	Y
30	274			63	261A			96	119C	X/C	Y
31	472			64	262A			97	288C	X/L	Z
32	277	\downarrow	\downarrow	65	263A	\downarrow	\downarrow				
33	473	2Y/B	X ₀	66	87A	X/L	Y				

TABLE VIII. (Continued)
 CONSTANT SET 733
 MODEL: 60-0, OH-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	5	X/L	φ	34	218	X/L	Z	67	70A	X/L	Y
2	6		φ	35	219		Z	68	107A		
3	7		φ	36	23		φ	69	114A		
4	44		Y	37	24			70	115A		
5	202		Z	38	25			71	116A		
6	203			39	26	X/L	φ	72	117A		
7	204			40	191	Y	Z	73	118A		
8	205		Z	41	192			74	130A		
9	8		φ	42	193			75	131A		
10	206		Z	43	194			76	132A		
11	9		φ	44	195			77	133A		
12	10			45	196			78	134A		
13	11			46	197			79	135A		
14	12		φ	47	198			80	220C		
15	45		Y	48	199			81	27C		
16	207		Y	49	200			82	28C		
17	208		Y	50	201	Y	Z	83	50C		
18	209		Z	51	164	X/C	Y	84	62C		
19	13		φ	52	165			85	29C		
20	14			53	166			86	30C		
21	15			54	167			87	51C		
22	16		φ	55	168	X/C	Y	88	63C		
23	211		Y	56	18	X/L	φ	89	31C		
24	212			57	278	X/C	Y	90	32C		
25	213			58	279	X/C		91	52C		
26	214		Y	59	280	X/C		92	64C		
27	21		φ	60	37A	X/L		93	33C		
28	17		φ	61	38A			94	34C		
29	48		Y	62	39A		Z	95	53C		
30	19		φ	63	45A		Y	96	65C		
31	215		Y	64	46A		Z	97	35C		
32	216		Y	65	47A		Y				
33	217	X/L	Y	66	65A	X/L	Y				

TABLE VIII. (Continued)
 CONSTANT SET 811
 MODEL: 60-0, OH-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	276	X/C	Y ₀	34	132	X/C	Y ₀	67	191A	X/L	Y ₀
2	40	X/L	φ	35	139			68	192A		Z ₀
3	41			36	140			69	193A		Z ₀
4	42			37	142			70	194A		Z ₀
5	43		φ ₀	38	143			71	22C		φ
6	57		Y ₀	39	144			72	36C		
7	58			40	147			73	37C		
8	59			41	148			74	38C		Y
9	60			42	150			75	39C		φ
10	69			43	151			76	54C		Y ₀
11	70			44	152			77	55C		
12	71		Y	45	153			78	56C		
13	72	Y	Y ₀	46	154			79	66C		
14	20	X/L	φ	47	156			80	67C	Y	
15	251	X/C	Y ₀	48	158			81	68C	X/L	
16	252			49	159			82	77C	X/C	
17	264			50	162	Y	Y	83	78C		
18	269	Y	Y	51	163	X/C	Y ₀	84	79C		
19	270	X/C	Y ₀	52	41A	X/L	Z ₀	85	80C		
20	482	2Y/B	X ₀	53	186A		Y ₀	86	81C		
21	271	X/C	Y ₀	54	187A			87	82C		
22	483	2Y/B	X ₀	55	188A			88	90C		
23	484		X/C	56	189A		Y	89	91C		
24	485		X/C	57	196A		Y ₀	90	92C		
25	490	Y	X ₀	58	336A		Z ₀	91	93C		
26	491	2Y/B	X/C	59	337A			92	94C		
27	83	X/C	Y ₀	60	338A			93	105C		
28	84			61	339A			94	106C		
29	95			62	341A			95	141C		
30	96			63	342A			96	155C	Y	Y
31	97			64	343A		Y	97	157C	X/C	Y ₀
32	107	Y	Y	65	344A	Y	Z ₀				
33	131	X/C	Y ₀	66	113A	X/L	Y ₀				

TABLE VIII. (Continued)

CONSTANT SET 911
MODEL: 83-0, OH-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	177	RAY	LINE	34	210	RAY	LINE	67	166	X/L	Z ₀
2	178			35	211			68	167		
3	179			36	212			69	168		
4	180			37	213			70	169		
5	181			38	214			71	170		
6	182			39	215			72	171		
7	183			40	216			73	172		
8	184			41	217			74	173		
9	185			42	218			75	174		
10	186			43	219			76	175		↓
11	187			44	220			77	176		Z ₀
12	188			45	221			78	379		φ
13	189			46	222	↓	↓	79	380		
14	190			47	223	RAY	LINE	80	381		
15	191			48	224	X/L	Y ₀	81	382		
16	192			49	225			82	383		
17	193			50	226			83	384		
18	194			51	227			84	385		
19	195			52	228			85	386		
20	196			53	229			86	387		
21	197			54	230			87	388		
22	198			55	231			88	389		
23	199			56	232			89	390		
24	200			57	233			90	391		
25	201			58	234			91	392		
26	202			59	235			92	393		
27	203			60	236		↓	93	394		
28	204			61	237		Y ₀	94	395		
29	205			62	161		Z ₀	95	396		
30	206			63	162			96	397		
31	207			64	163			97	398	X/L	φ
32	208	↓	↓	65	164	↓	↓				
33	209	RAY	LINE	66	165	X/L	Z ₀				

TABLE VIII. (Concluded)

CONSTANT SET 922
MODEL: 83-0, OH-105

Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2	Ch No.	TC No.	COORD1	COORD2
1	399	X/L	φ	34	288	X/L	φ	67	451	X/L	φ
2	400			35	289			68	452		
3	401			36	290			69	453		
4	402			37	291			70	454		
5	403			38	292			71	455		
6	404			39	293			72	456		
7	405			40	294			73	457		
8	406			41	426			74	458		
9	407			42	427			75	459		
10	408			43	428			76	460		
11	409			44	429			77	461		
12	410			45	430			78	462		
13	411			46	431			79	463		
14	412			47	432			80	464		
15	413			48	433			81	465		
16	414			49	434			82	466		
17	415			50	435			83	467		
18	416			51	436			84	468		
19	273			52	437			85	469		
20	274			53	438			86	470		
21	275			54	439			87	471		
22	276			55	440			88	472		↓
23	277			56	441			89	473		φ
24	278			57	442			90	303		-
25	279			58	443			91	474		φ
26	280			59	444			92	475		φ
27	281			60	445			93	476		φ
28	282			61	446			94	296		-
29	283			62	447			95	298		
30	284			63	448		↓	96	299	↓	↓
31	285			64	449		φ	97	300	X/L	-
32	286	↓	↓	65	297	↓	-				
33	287	X/L	φ	66	450	X/L	φ				

TABLE IX. 60-Ø MODEL LOCAL SURFACE DEFLECTION ANGLES

T/C NO	ϵ , DEG	T/C NO	ϵ , DEG	T/C NO	ϵ , DEG	T/C NO	ϵ , DEG
1	90	21	2.0	41	-4.5	70	-4.5
2	50	22C	1.4	42	-4.5	71	-4.5
3	35.5	23	1.0	43	-4.5	72	-4.5
4	23.0	24	↓				
5	17.7	25		50C	1.0	73C	90.0
6	14.4	26		51C	↓	74C	8.0
7	12.0	27C		52C		75C	6.75
8	10.3	28C		53C		76C	4.6
9	8.6	29C		54C		77C	3.25
10	7.3	30C		55C		78C	2.75
11	6.4	31C				79C	1.0
12	5.5	32C		61C	1.0	80C	1.1
13	4.3	33C		62C	↓	81C	0.75
14	3.9	34C	1.0	63C		82C	-0.5
15	3.6	35C	-1.5	64C		83	-5.7
16	3.4	36C	-2.0	65C		84	-8.0
17	3.1	37C	-2.6	66C	-2.0		
18	2.8	38C	-3.2	67C	-3.2		
19	2.6	39C	-3.8	68C	-3.8		
20	2.3	40	-4.5	69	-4.5		

TABLE IX. Concluded

T/c NO	ϵ , DEG	T/c NO	ϵ , DEG	T/c NO	ϵ , DEG	T/c NO	ϵ , DEG
86 C	90.0	106 C	0.6	127 C	4.5	148	-7.25
87 C	12.5	108 C	90.0	128 C	2.25	149	90.0
88 C	6.9	109 C	90.0	129 C	1.2	150	2.5
89 C	2.5	110 C	16.75	130 C	1.2	151	2.0
90 C	1.1	111 C	10.5	131	1.0	152	90.0
91 C	1.0	112 C	6.25	132	-7.5	153	3.75
92 C	1.6	113 C	4.0	133	90.0	154	3.0
93 C	1.1	114 C	1.5	134	18.0	155 C	2.25
94 C	0.2	115 C	1.5	135	9.0	157 C	1.75
95	-3.5	116 C	1.75	136	4.5	158	-3.0
96	-7.5	117 C	1.1	137	2.1	159	-7.75
97	-9.25	118 C	1.0	138	1.6	160	90.0
98 C	90.0	119 C	-0.5	139	1.5	161	8.5
99 C	90.0	120	-3.5	141 C	1.0	162	5.0
100 C	11.2	121	-4.6	142	-3.4	163	2.5
101 C	5.0	122	-8.0	143	-7.4	164	2.0
102 C	2.0	123	-9.25	144	-8.9	165	1.5
103 C	1.5	124 C	90.0	145	90.0	166	-0.5
104 C	1.25	125 C	90.0	146	2.0	167	-4.5
105 C	1.0	126 C	17.5	147	1.75	168	-7.5

TABLE X.
83-Ø MODEL LOCAL SURFACE DEFLECTION ANGLES

T/C NO	E, DEG	T/C NO	E, DEG
273	89.0	294	1.0
274	85.0	295	1.0
275	75.0		
276	43.0		
277	35.5		
279	23.0		
280	21.0		
281	20.0		
282	17.7		
283	16.5		
284	15.1		
285	14.1		
286	13.5		
287	12.0		
288	5.0		
289	3.4		
290	2.0		
291	1.0		
292	1.0		
293	1.0		

TABLE XI. PLOTTED THERMOCOUPLES

Test: OH-P4B, OH-105 Model: 60-0 (Base Stings)

Con. Set 111, 711			Con. Set 122, 722			Con. Set 133, 733		
DMS PAD - SW. POS. 1			WING UPPER SURF. SW. POS. 2			FUS. LOWER & - SW. POS. 3		
T/C NO.	X/L	TRACE	T/C NO.	2Y/6	X.	T/C NO.	X/L	
298	0.843	1	460	0.50	1373.54	5	0.03	
308	.881		461	.55		6	.04	
315	.920		462	.60		7	.05	
320	.939	↓	463	.65		8	.06	
			464	.70		9	.07	
302	0.862	2	465	.725		10	.08	
309	.881		466	.75		11	.09	
316	.920		467	.775		12	.10	
321	.939		468	.80		13	.12	
327	.978	↓	469	.825		14	.13	
			470	.85		15	.14	
303	0.862	3	471	.875		16	.15	
310	.881		274	.90		18	.17	
317	.920		472	.925		21	.20	
322	.939		277	.95		23	.25	
328	.978	↓	473	.975	↓	24	.30	
						25	.35	
299	0.843	4				26	.40	
304	.862					27C	.45	
311	.881					28C	.50	
318	.920					29C	.55	
323	.939					30C	.60	
329	.978	↓				31C	.65	
						32C	.70	
300	0.843	5				33C	.75	
305	.862					34C	.80	
312	.881					35C	.90	
319	.920							
330	.978	↓				19	.18	
						17	.16	
301	0.843	6						
306	.862							
313	.901							
325	.939							
331	.978	↓						

TABLE XI. Continued

Test: 04-84B Model: 60-0 (Offset String)

Model: 60-0 (Offset String)

[illegible]

TABLE XI. Continued

Test: IH-102

Model: 56-0

Con. Set 311

TRACE NO.	FUSELAGE SIDE			TRACE NO.	FUSELAGE SIDE		
	T/C	X/L	Z ₀		T/C	X/L	Z ₀
1 ↓	1	.275	437.5	3 ↓	31	.200	400.0
	2	.300	442.0		32	.225	
	3	.325	445.0		33	.250	
	4	.350			34	.275	
	5	.375			35	.300	
	6	.40			36	.325	
	7	.425			37	.350	
	8	.45			38	.375	
	9	.475			39	.400	
	10	.50			40	.425	
	11	.525			41	.450	
	12	.550			42	.475	
	13	.600			43	.500	
	14	.650			44	.525	
	15	.700			45	.550	
	16	.750			46	.600	
	17	.800			47	.650	
2 ↓	18	.285	420.0		48	.700	
	19	.337			49	.750	
	20	.390			50	.800	
	21	.426			51	.850	
	22	.478			52	.875	
	23	.530			53	.900	
	24	.567			54	.925	
	25	.620			55	.950	
	26	.670					
	27	.705					
	28	.750					
	29	.800					
	30	.824					

TABLE XI. Continued

Test: IH-102 Model: 56-0

Con. Set 311

TRACE NO.	FUSELAGE SIDE		
	T/C	X/L	Z ₀
4 ↓	56	.300	372.5 ↓
	57	.325	
	58	.350	
	59	.375	
	60	.400	
	61	.425	
	62	.450	
	63	.475	
	64	.500	
	65	.525	
	66	.550	
	67	.600	
	68	.650	
	69	.700	
	70	.750	
5 ↓	71	.200	355.0 ↓
	72	.225	
	73	.250	
	74	.275	
	75	.800	
	76	.850	
	77	.875	
	78	.900	
	79	.925	
	80	.950	

Model: 83-0

Model: 83-0

Con. Set 422

UPPER & CONT. - SW. POS. 2

120

TABLE XI. Continued

Test: IH-102

Model: 60-0

Con. Set 511			Con. Set 522			Con. Set 533		
OMS POD - SW. POS. 1			TOP \bar{Q} - SW. POS. 2			LOWER SIDE AT ELEVON GAP - SW. POS. 3		
T/C NO.	X/L	TRACE	T/C NO.	X/L		T/C NO.	X/L	Z.
298	0.843	1	169	0.010		320A	0.906	318.0
308	.881		170	.025		321A	.921	
315	.920		171	.050		322A	.946	
320	.939	↓	172	.075		323A	.971	↓
			173	.100				
302	0.862	2	174	.125		336A	0.906	280
309	.881		175	.150		337A	.921	
316	.920		176	.160		338A	.948	
321	.939		177	.170		339A	.923	↓
327	.978	↓	178	.180				
			179	.200		341A	0.906	268
303	0.862	3	182	.40		342A	.921	↓
310	.881		183	.45		343A	.946	270
317	.920		184	.50		344A	.973	272
322	.939		185	.55				
328	.978	↓	186	.60				
			187	.65				
299	0.843	4	188	.70				
304	.862		189	.75				
311	.881		190	.80				
318	.920							
323	.939							
329	.978	↓						
300	.843	5						
305	.862							
312	.881							
319	.920							
330	.978	↓						
301	0.843	6						
306	.862							
313	.901							
325	.939							
331	.978	↓						

TABLE XI. Continued

Test: OH-105

Model: 60-0 (Base String)

Con. Set 811

LOWER SFT. FUS. BODY FLAP. SN. POS. 4

T/C NO.	X/L	Y ₀	T/C NO.	T/C NO.
36 C	0.90	0		
37 C	.925			
38 C	.950			
39 C	.975			
40	1.015			
41	1.03			
42	1.045			
43	1.06			
54 C	0.90	46.8		
55 C	.95			
56 C	.975			
57	1.015			
58	1.03			
59	1.045			
60	1.06			
66 C	0.90	93.6		
67 C	.95			
68 C	.975			
69	1.015			
70	1.03			
71	1.045			
72	1.06			
186 A	0.893	103.94		
187 A	.920	107.6		
188 A	.944	109.2		
189 A	.964	113.2		

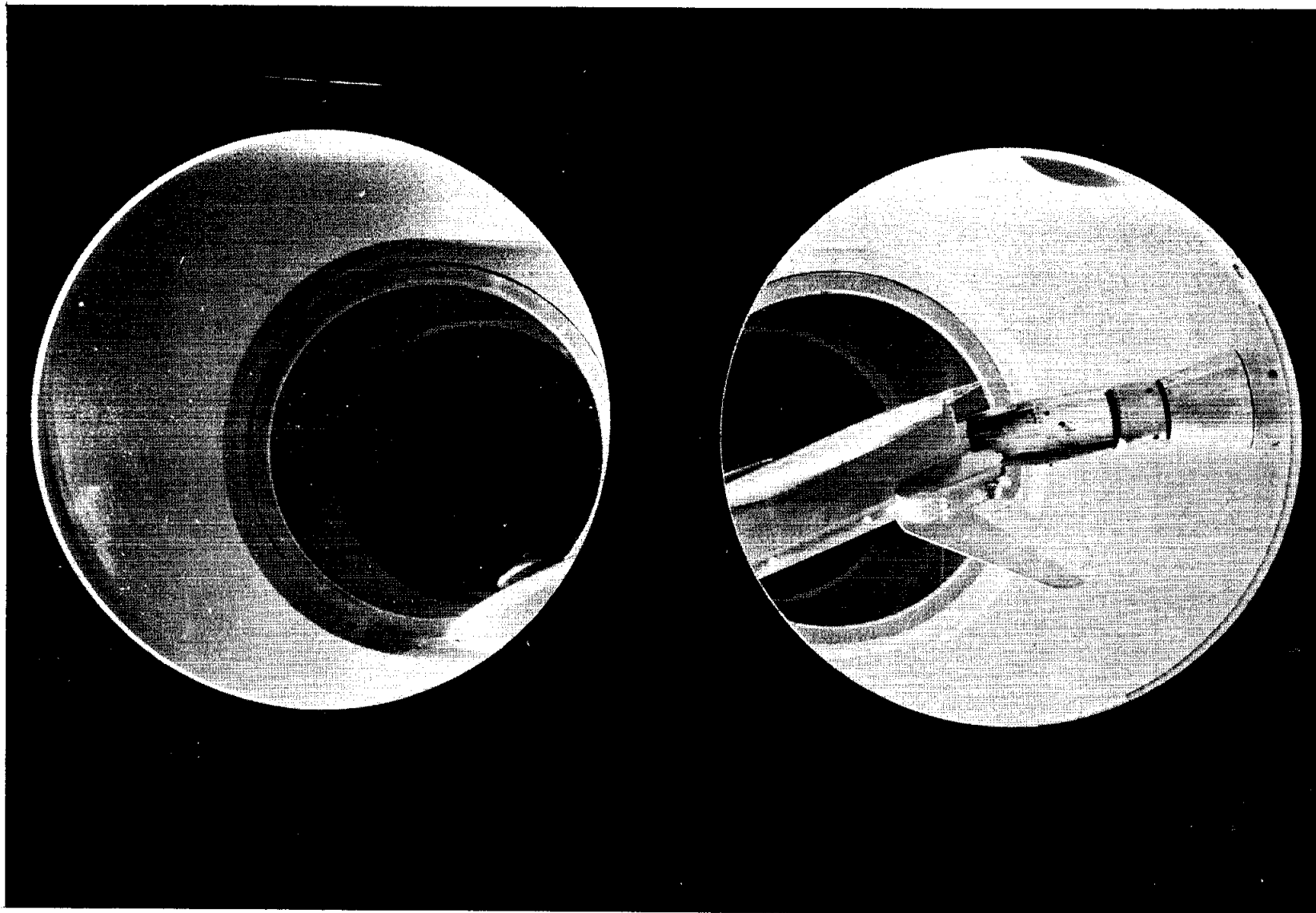


Figure 1. Model 60-0 Installed in VKF Tunnel B
(Model Shown Inverted)

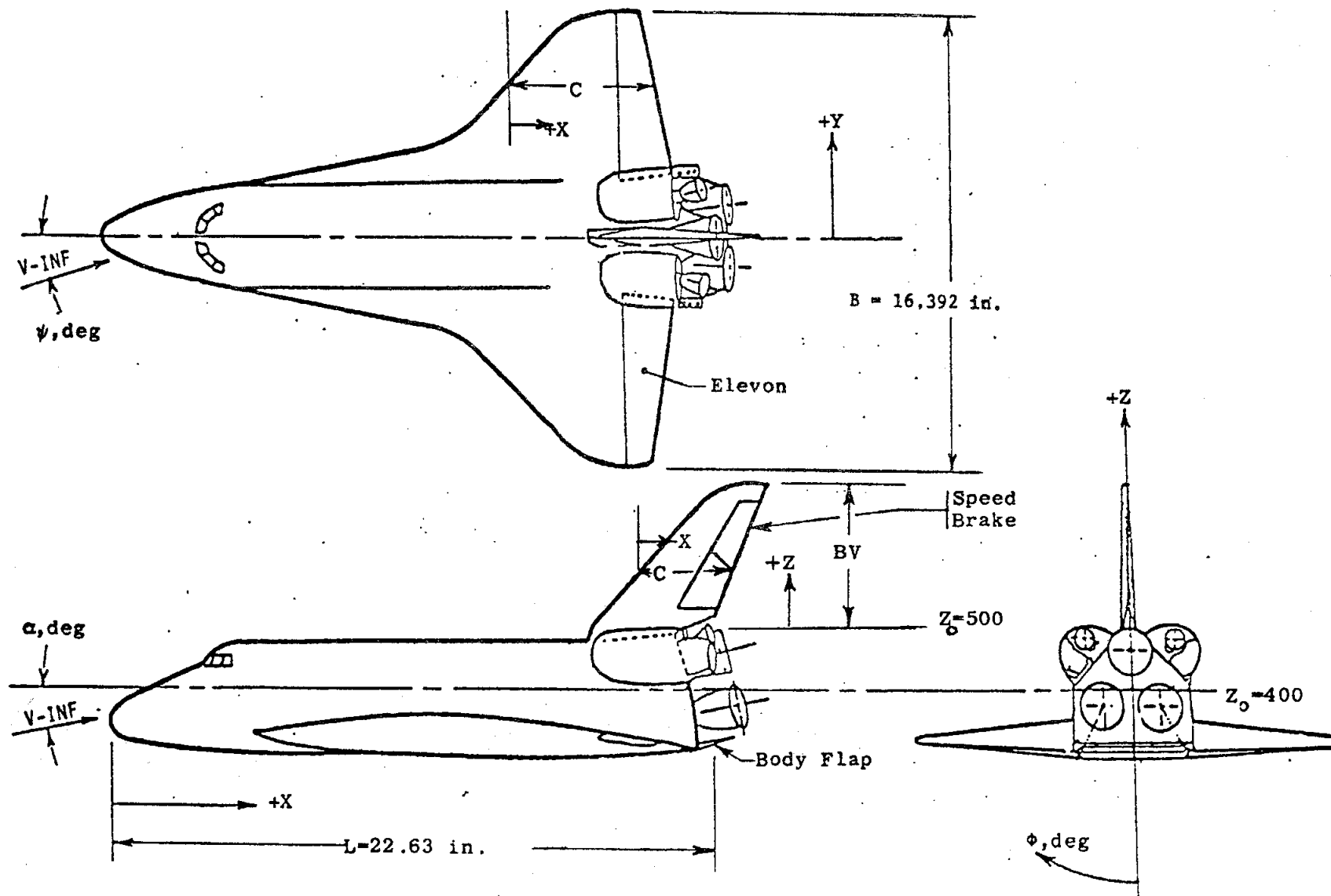


Figure 2. Sketch of the 0.0175-Scale Space Shuttle Orbiter Models

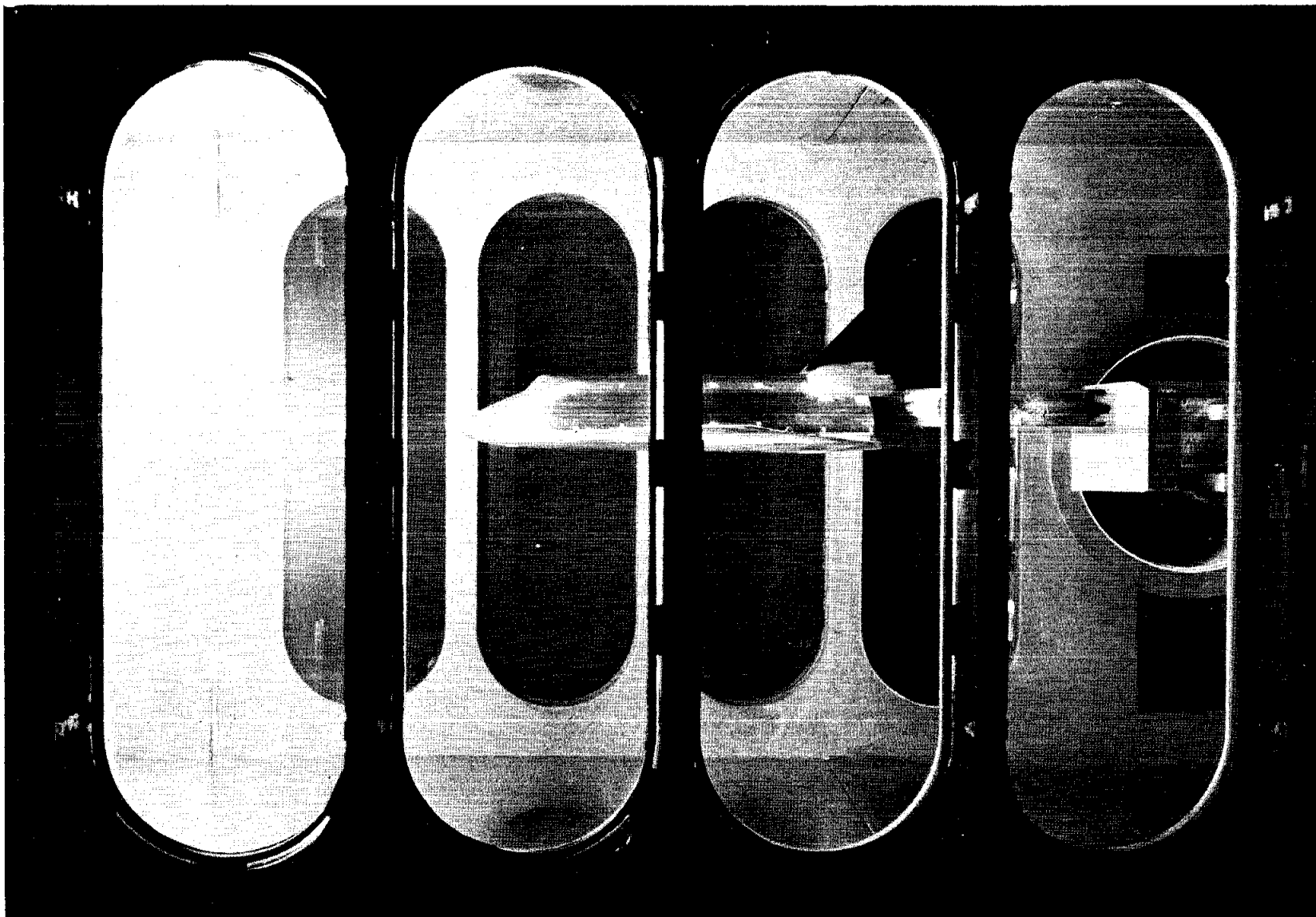


Figure 3. Model 56-0 Installed in VKF Tunnel A

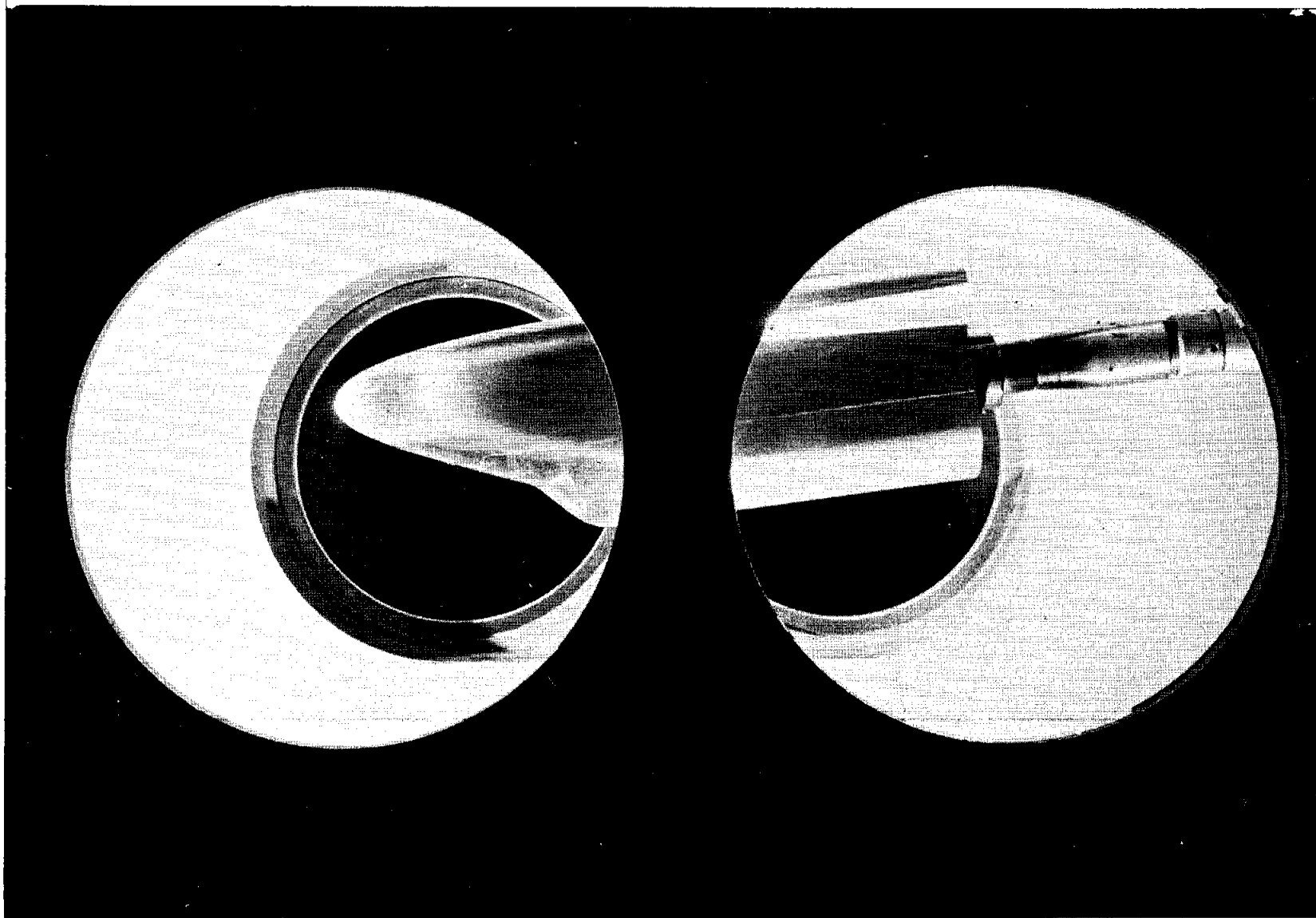


Figure 4. Model 83-0 Installed in VKF Tunnel B
(Model Shown Inverted)

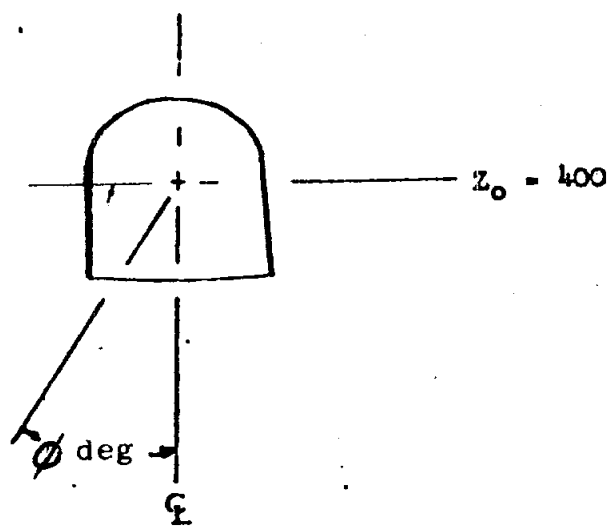
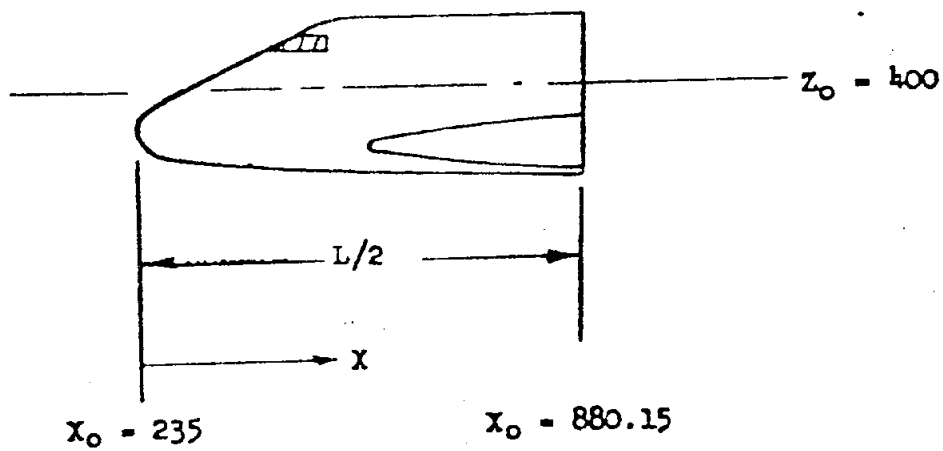


Figure 5. Sketch of 83-0 Model Coordinate System

50-INCH HYPERSONIC TUNNELS B&C

SCALE-1/3

TUNNEL WALL

MAX. FWD PT
STA. 69 673

FWD C.R.
STA. 59 673

STA. 55 923

NOM C.R.
STA. 45 673

STA. 35 423

AFT. C.R.
STA. 29 673

ROLL HUB
STA. 0 00

1.06-2-11-052

1.06-2-02-008

1.06-2-32-010

1.06-2-32-008

1.06-2-31-021

1.10-2-22-003

$\alpha = 20^\circ$

$\alpha = 40^\circ$

CR=6.0

$\alpha = -37^\circ$

NASA/RI OH-84B (V91B-67)

BASE STING
60-# MODEL

TUNNEL WALL

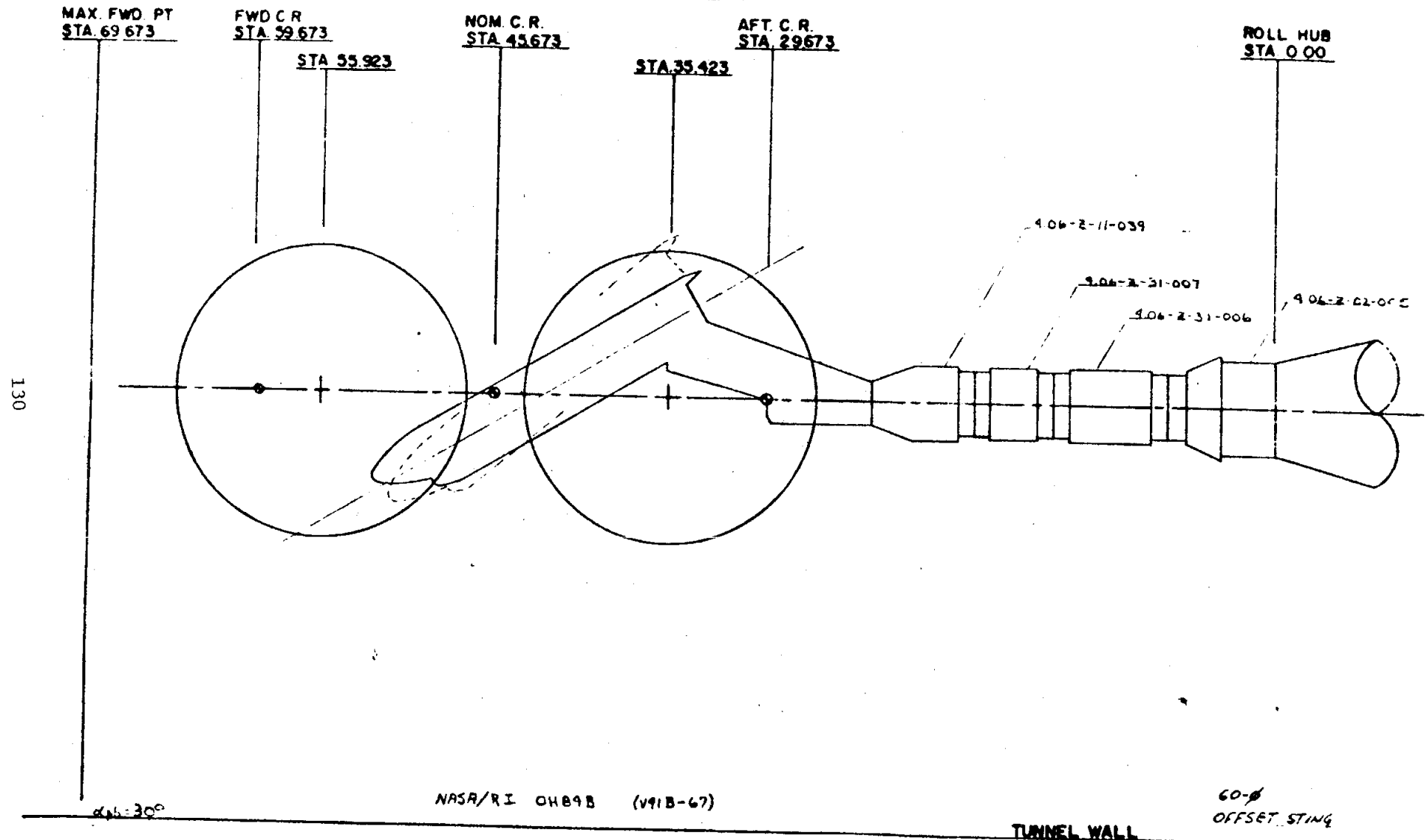
a. Configuration Code 10

Fig. 6 Installation Sketches of Model Configurations

50-INCH HYPERSONIC TUNNELS 39C

SCALE-1/3

TUNNEL WALL

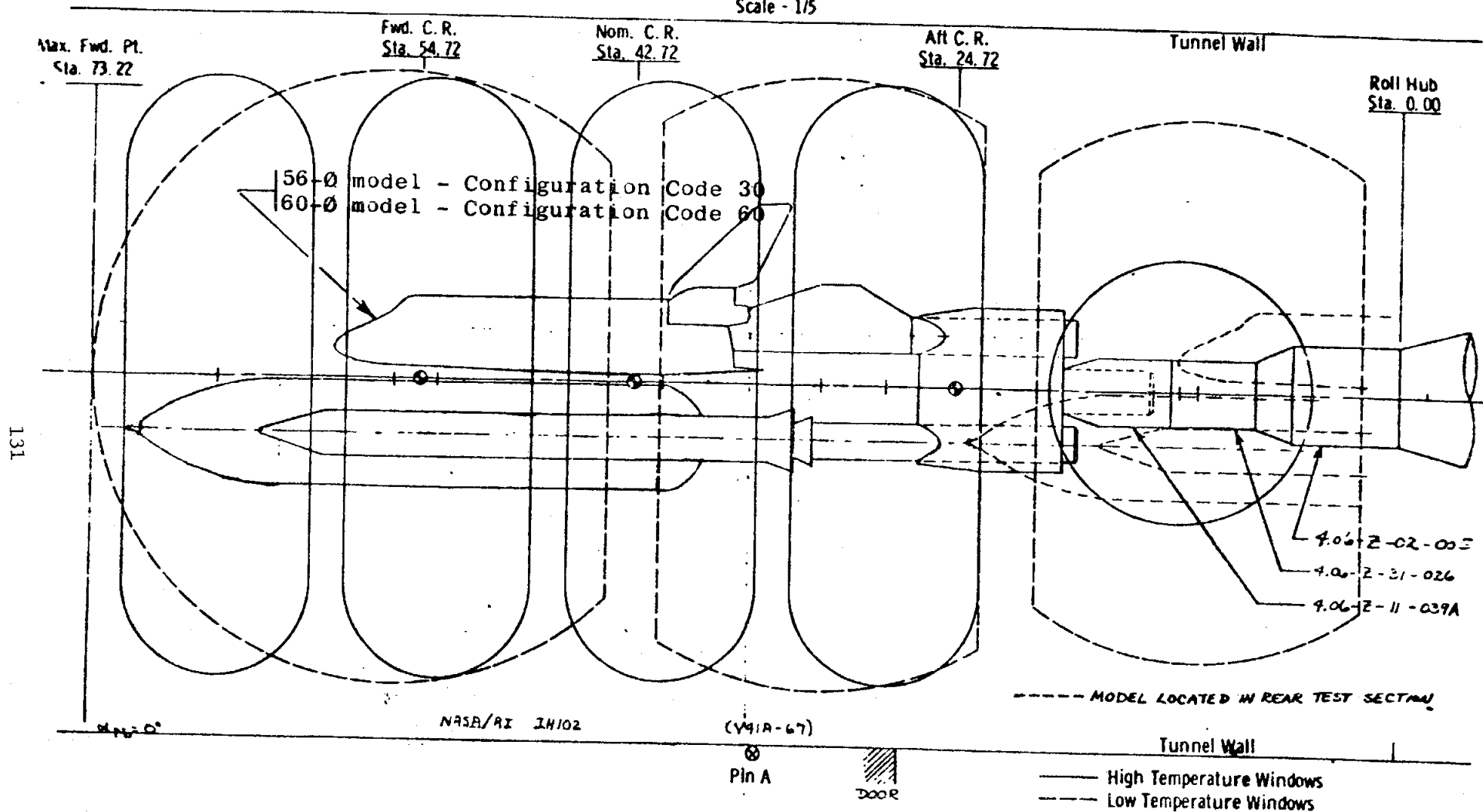


b. Configuration Code 20

Fig. 6 Continued

40-INCH SUPERSONIC TUNNEL A

Scale - 1/5

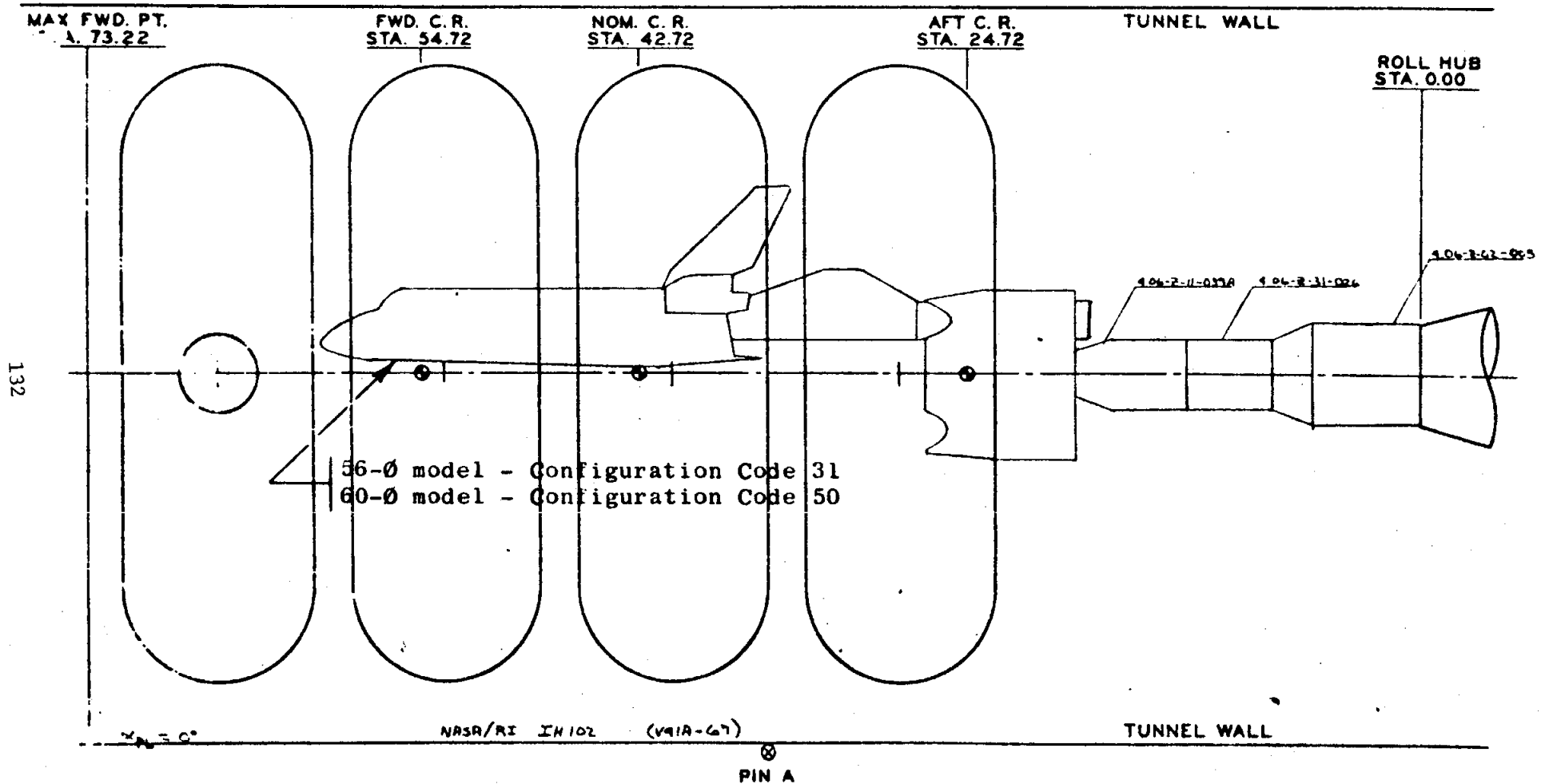


c. Configuration Codes 30 and 60

Fig.6 Continued

40-INCH SUPERSONIC TUNNEL A

SCALE - 1/5

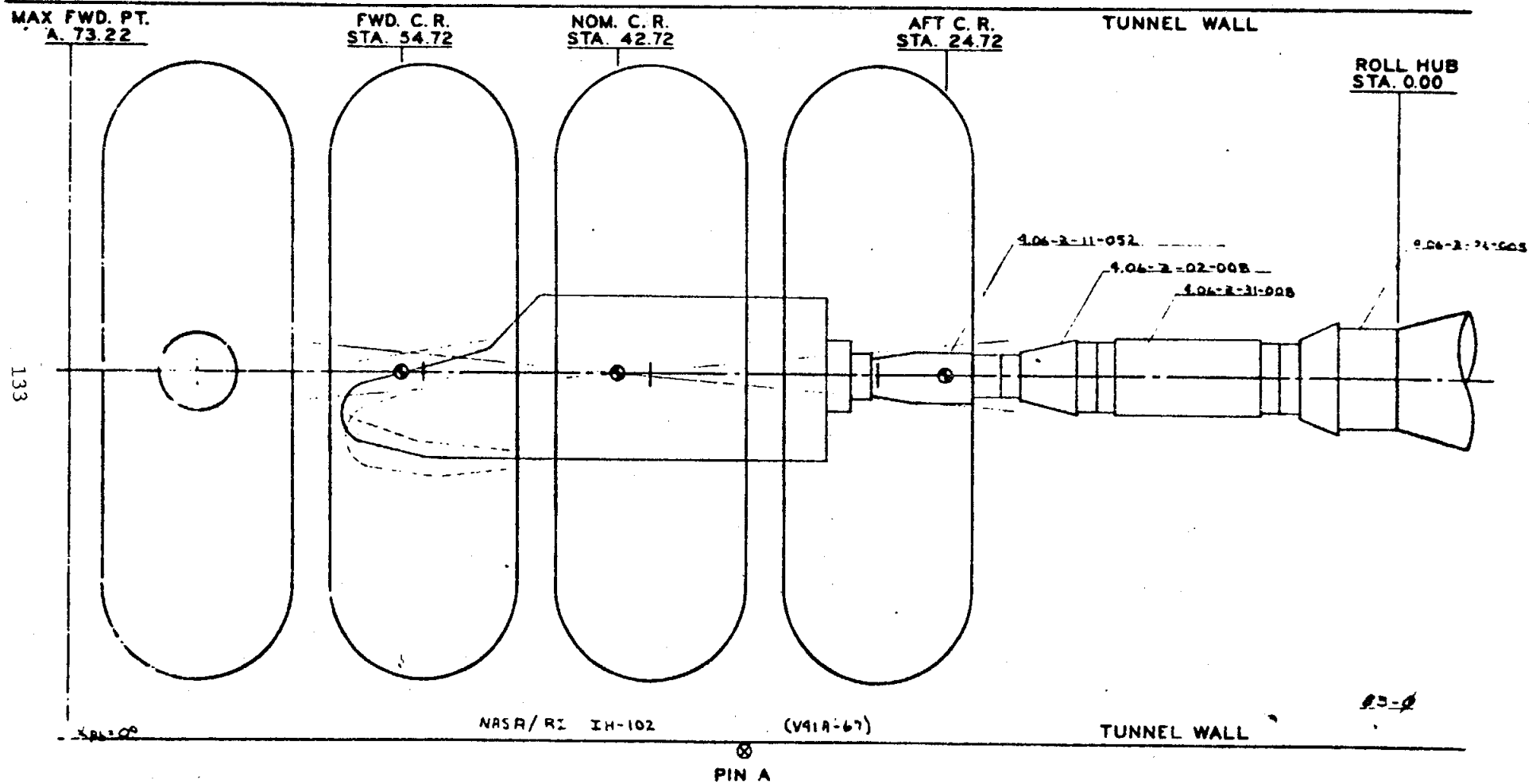


d. Configuration Codes 31 and 50

Fig. 6 Continued

40-INCH SUPERSONIC TUNNEL A

SCALE - 1/5



e. Configuration Code 40
Fig. 6 Continued

50-INCH HYPERSONIC TUNNELS B&C

SCALE-1/5

TUNNEL WALL

MAX. FWD PT
STA 69.673

FWD C.R.
STA 59.673

STA 55.923

NOM C.R.
STA 45.673

STA 35.423

AFT. C.R.
STA 29.673

ROLL HUB
STA 0.00

135

$\alpha = 0^\circ$

$\alpha = 20^\circ$

C.R.

4.04-2-11-052

4.04-2-02-008

4.04-2-32-010

4.04-2-32-008

4.04-2-31-021

4.10-2-22-003

$\alpha = 7^\circ$

NASA/RI OH-105 (V41B-67)

TUNNEL WALL

60-# MODEL

g. Configuration Code 70

Fig. 6 Continued

50-INCH HYPERSONIC TUNNELS B&C

SCALE-1/3

TUNNEL WALL

MAX. FWD PT
STA. 69 673

FWD C.R.
STA. 59 673

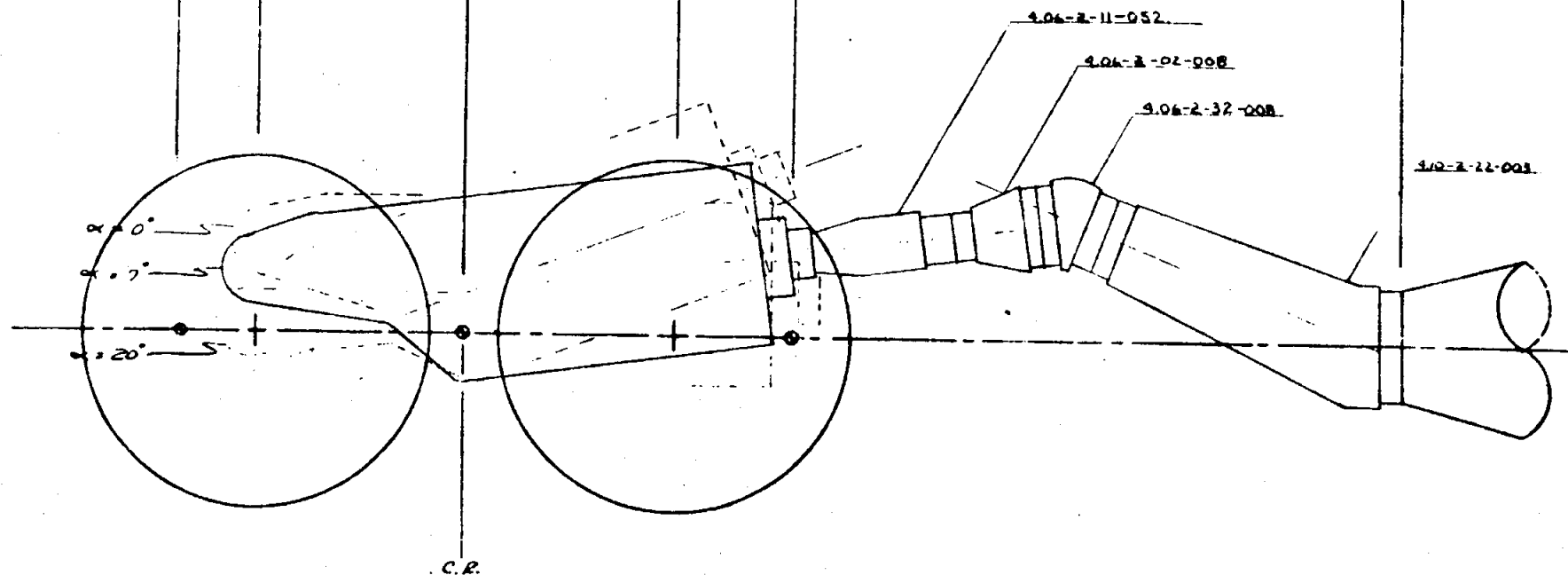
STA. 55 923

NOM C.R.
STA. 45 673

STA. 35 423

AFT. C.R.
STA. 29 673

ROLL HUB
STA. 0 00



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NASA/RI IH 102

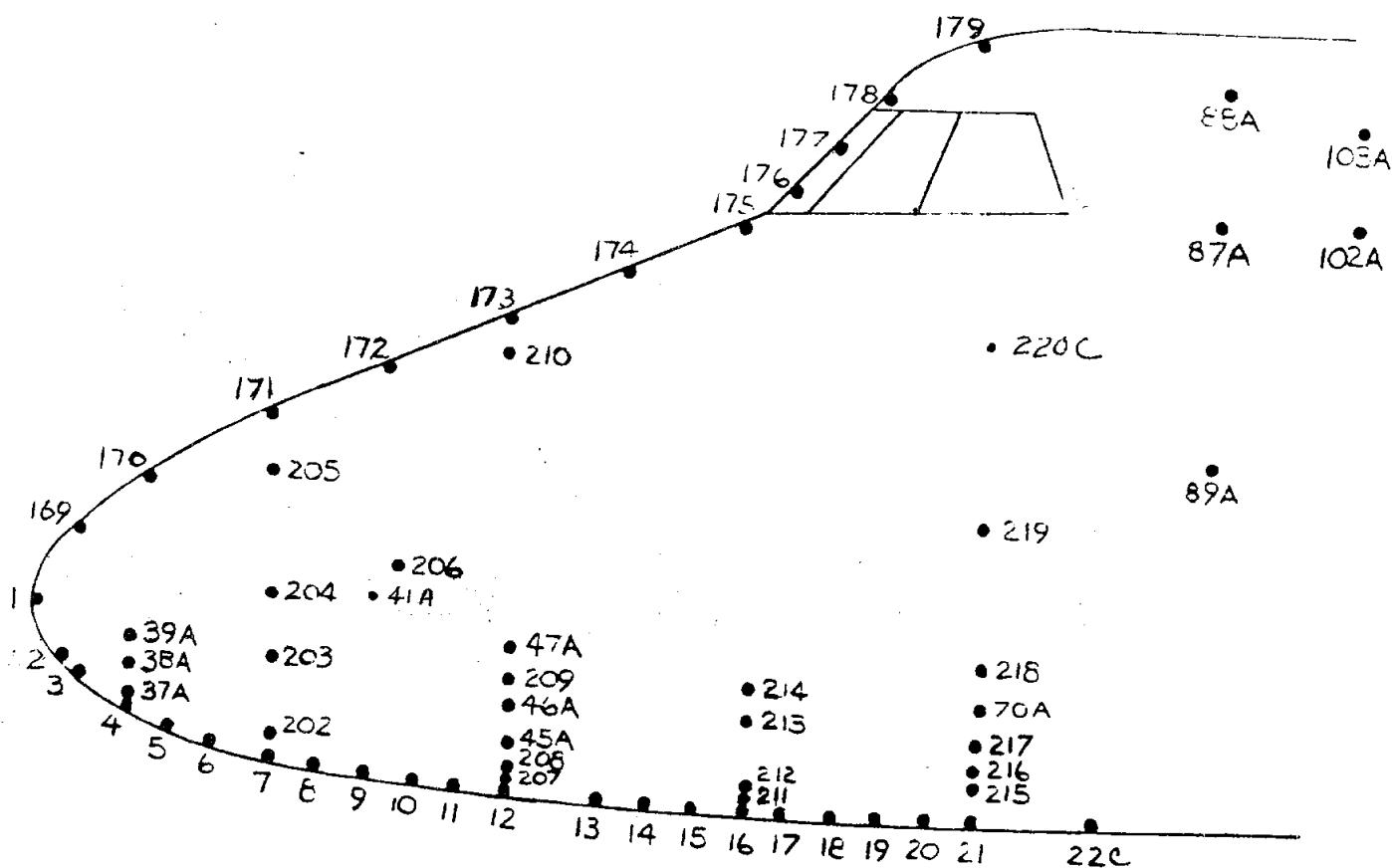
(V41B-67)

TUNNEL WALL

83-0

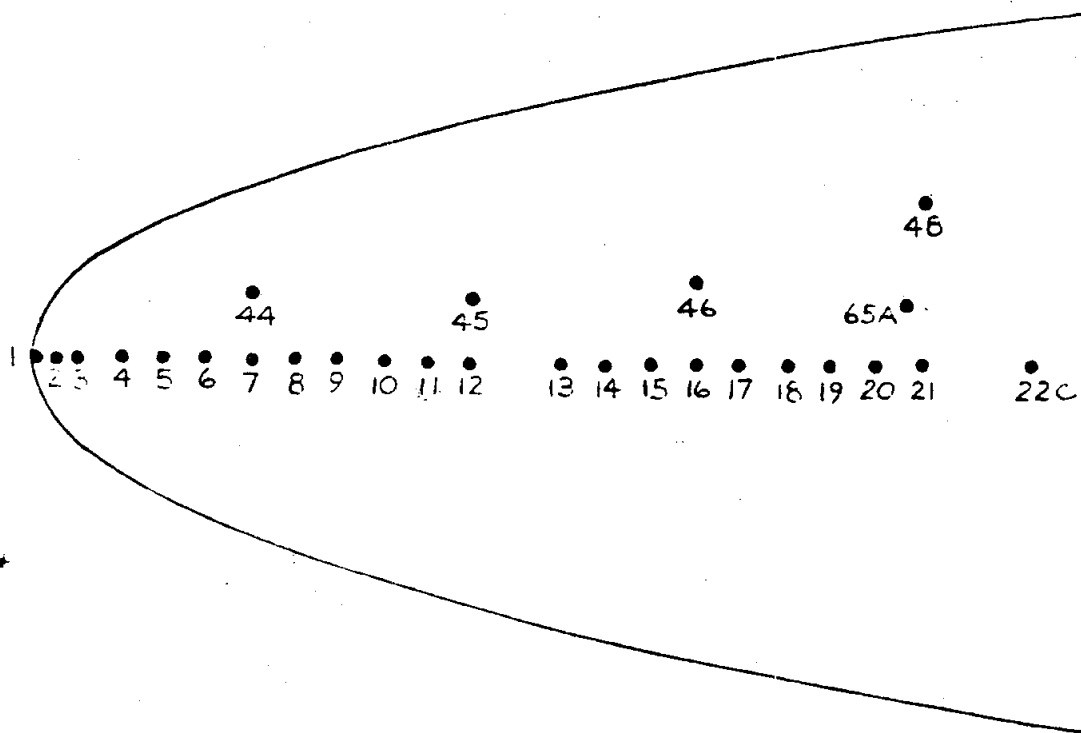
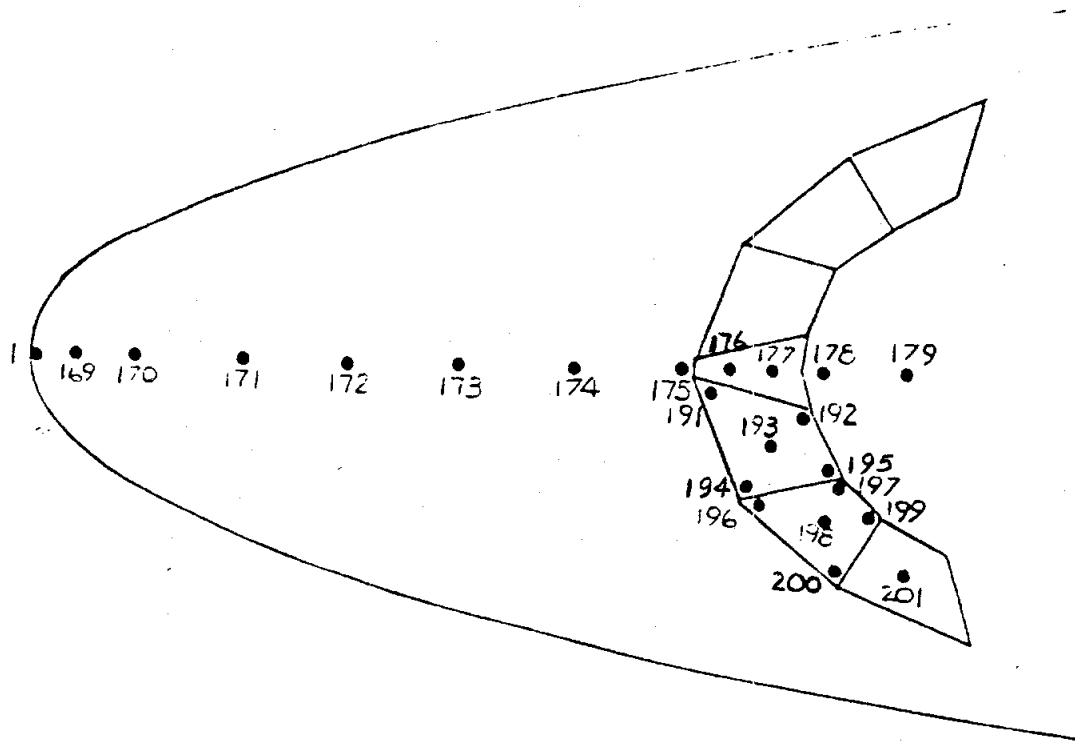
h. Configuration Code 80

Fig. 6 Concluded



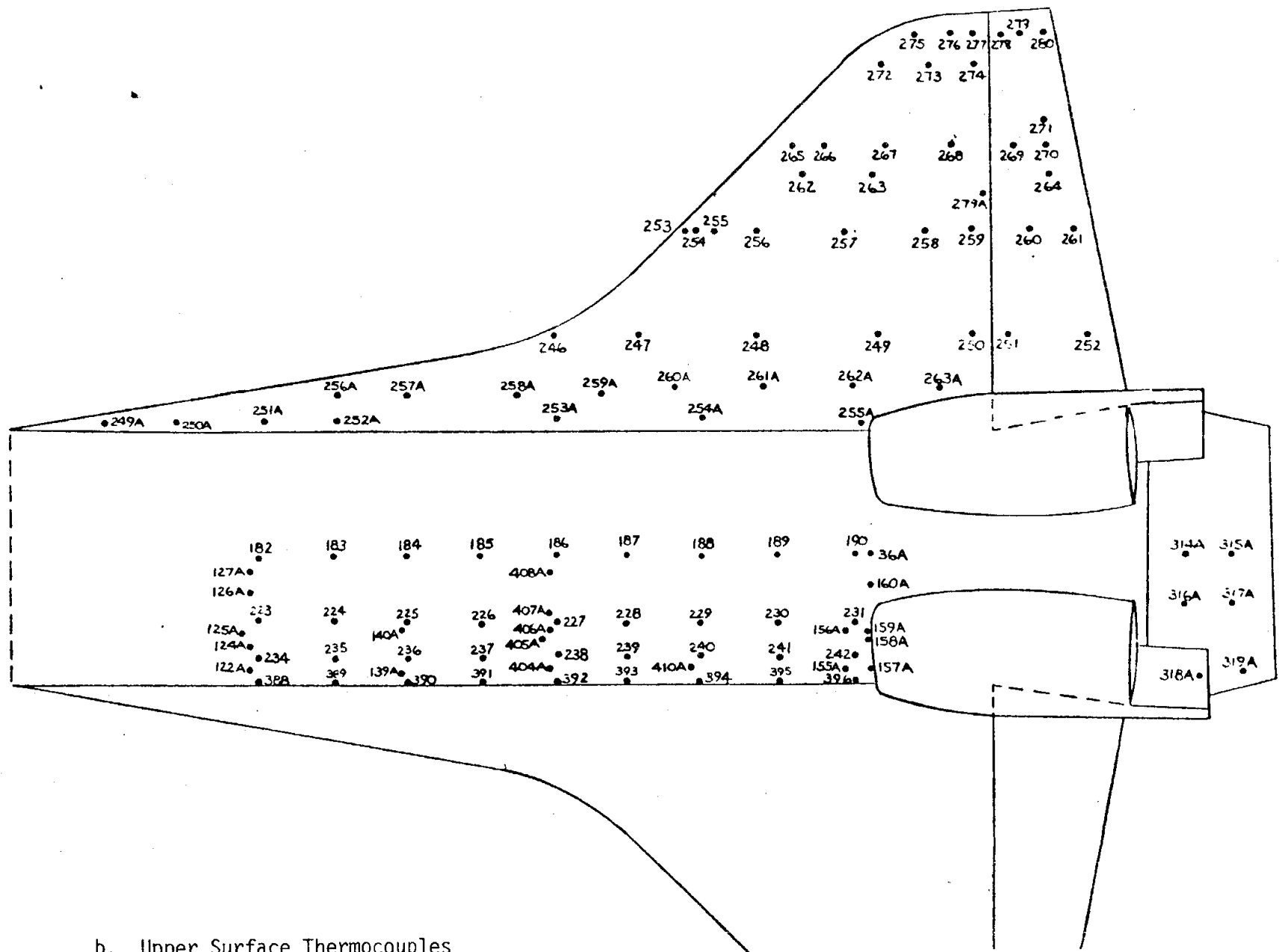
a. Nose and Canopy

Fig. 7 Thermocouple Locations on 60-Ø Model



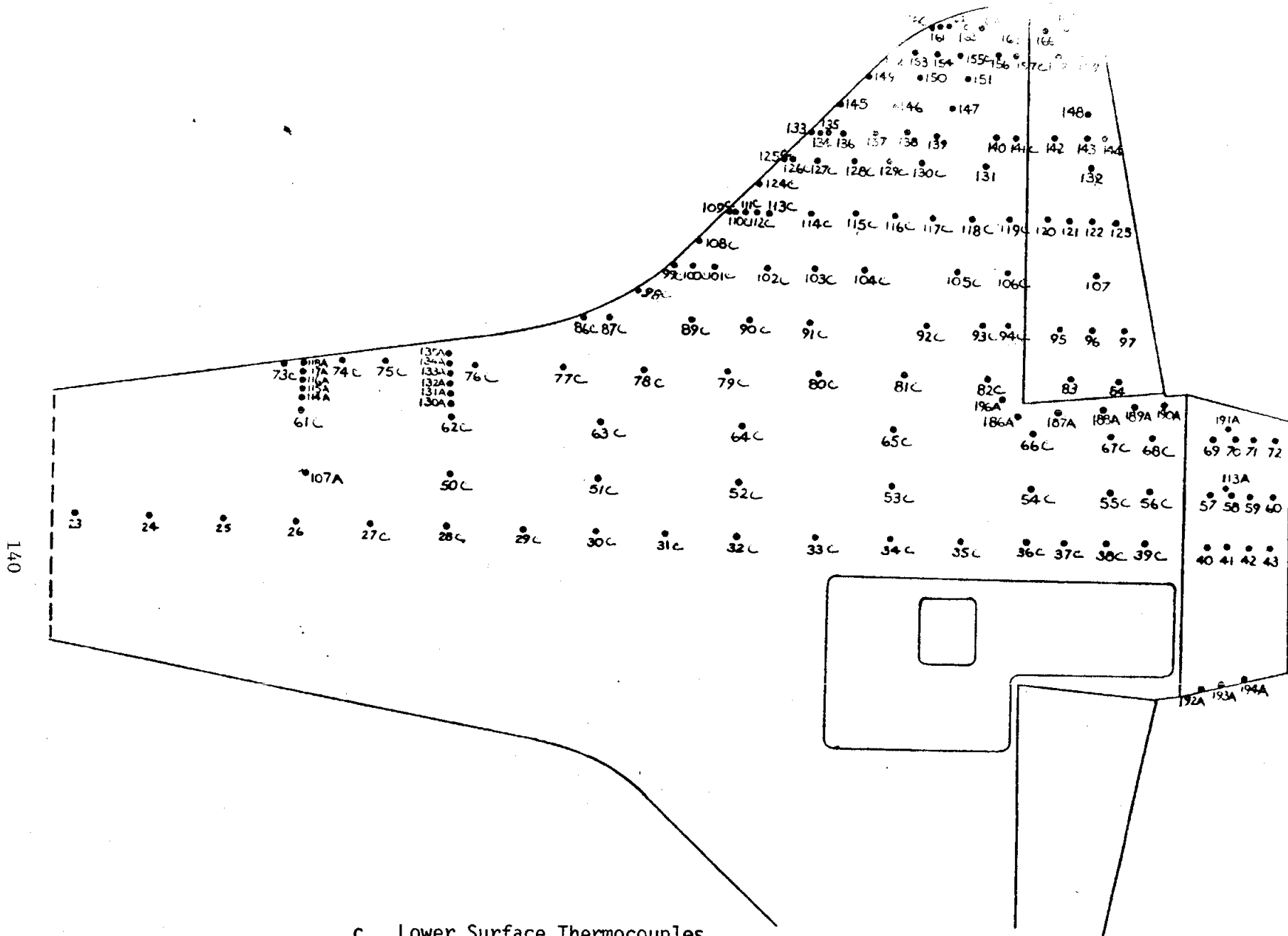
a. Nose and Canopy (Concluded)

Fig. 7 Continued 138



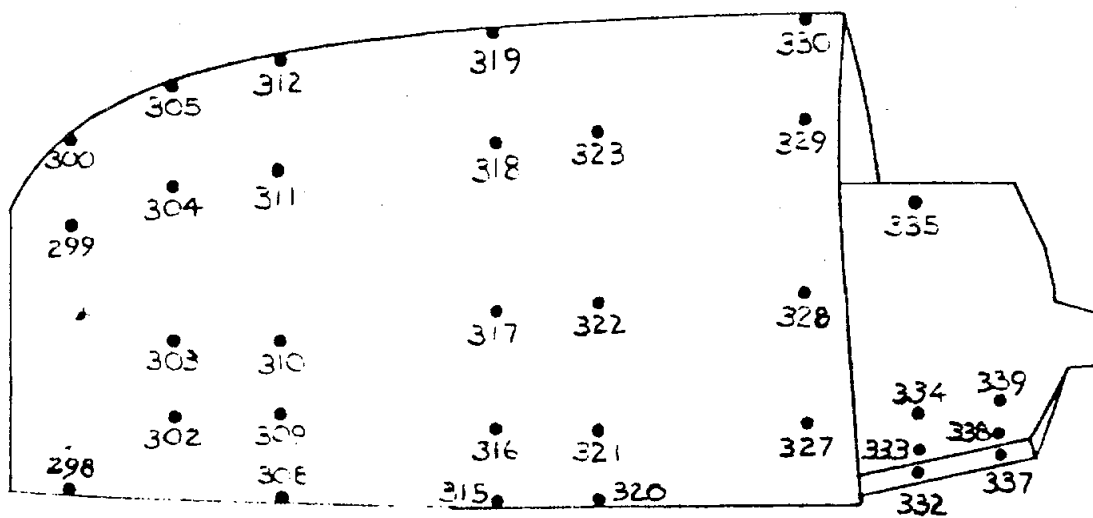
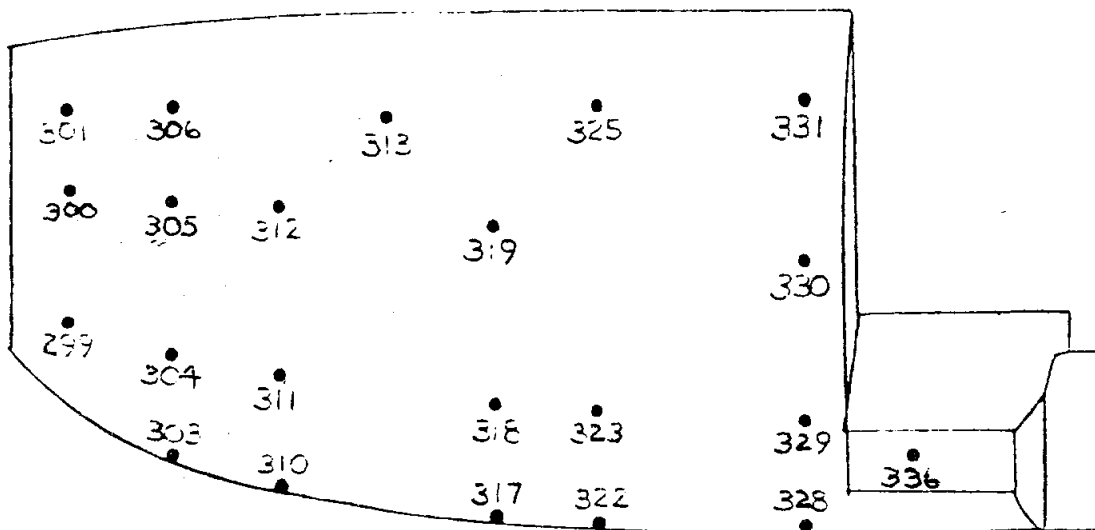
b. Upper Surface Thermocouples

Fig. 7. Continued

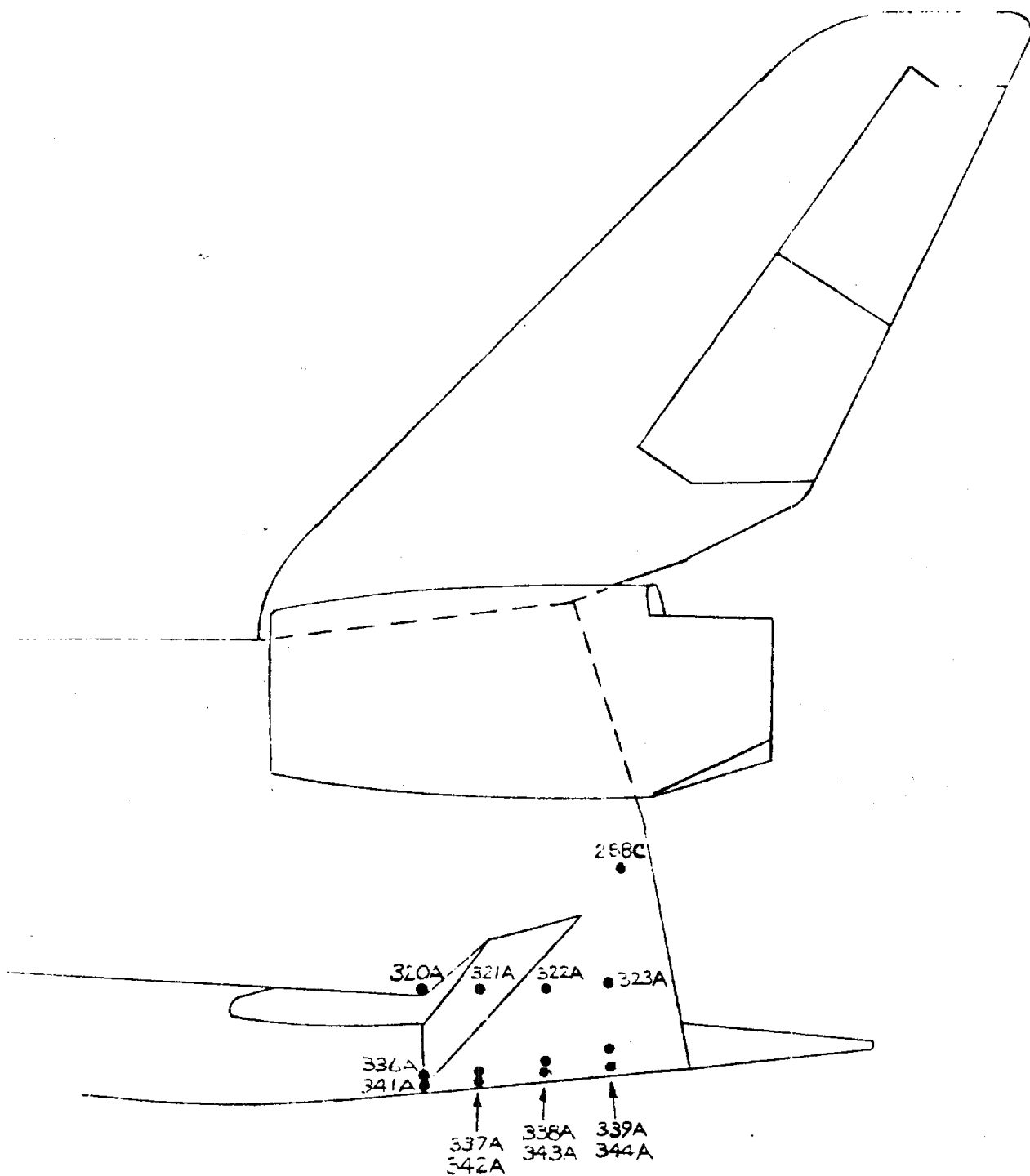


c. Lower Surface Thermocouples

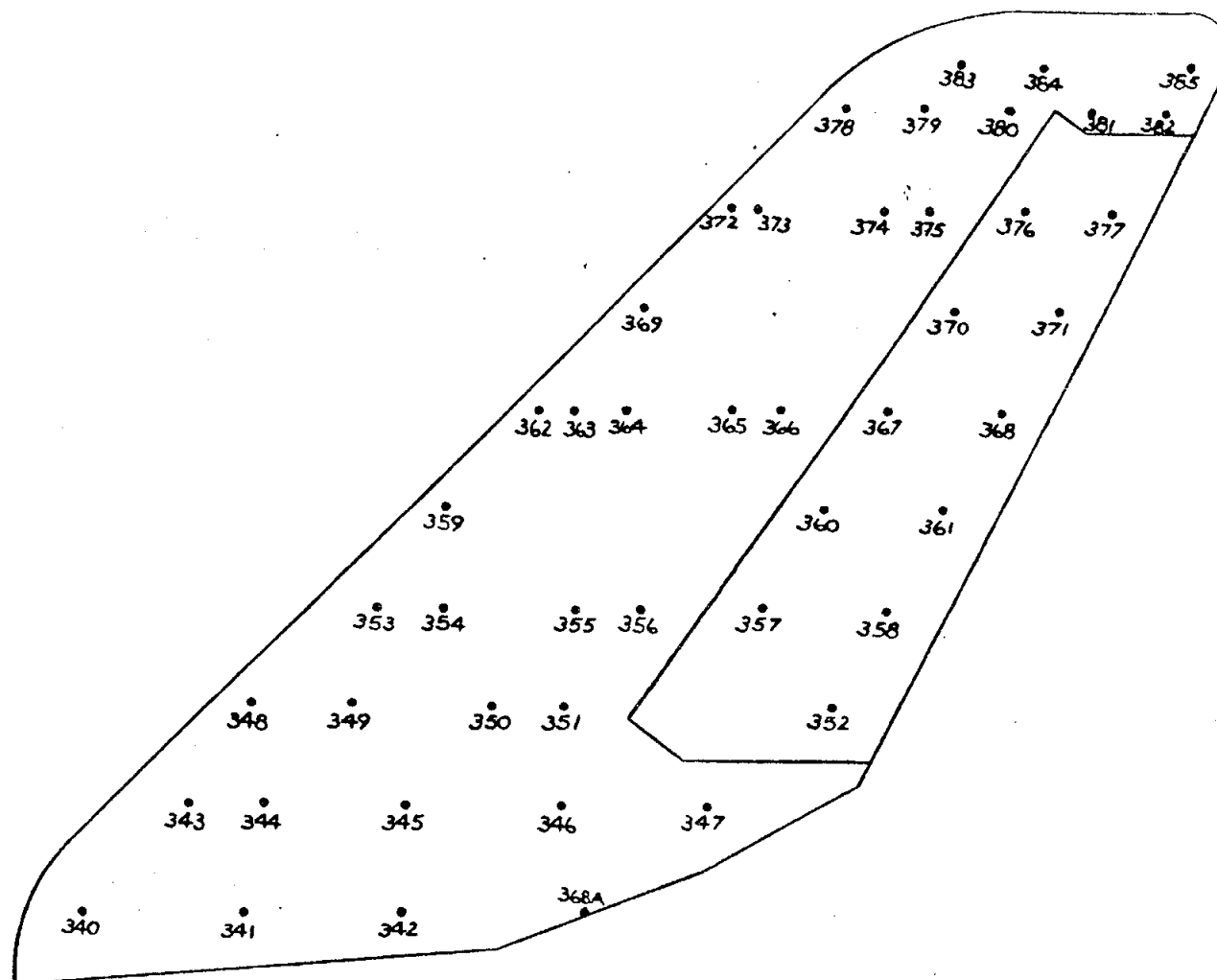
Fig. 7 Continued



d. OMS Pod
 Fig. 7 Continued
 141

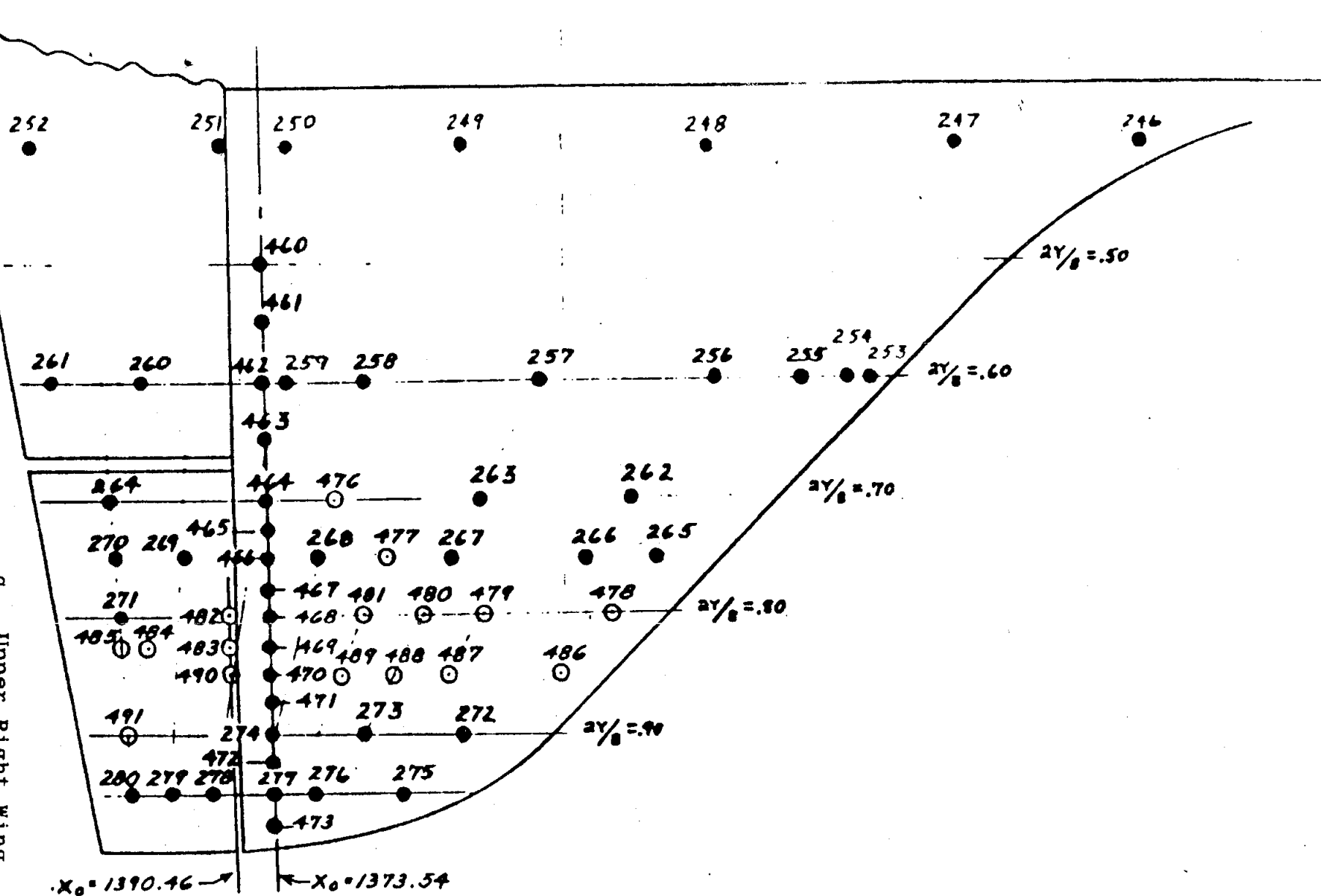


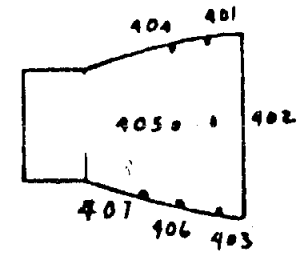
e. Aft Fuselage
Fig. 7 Continued



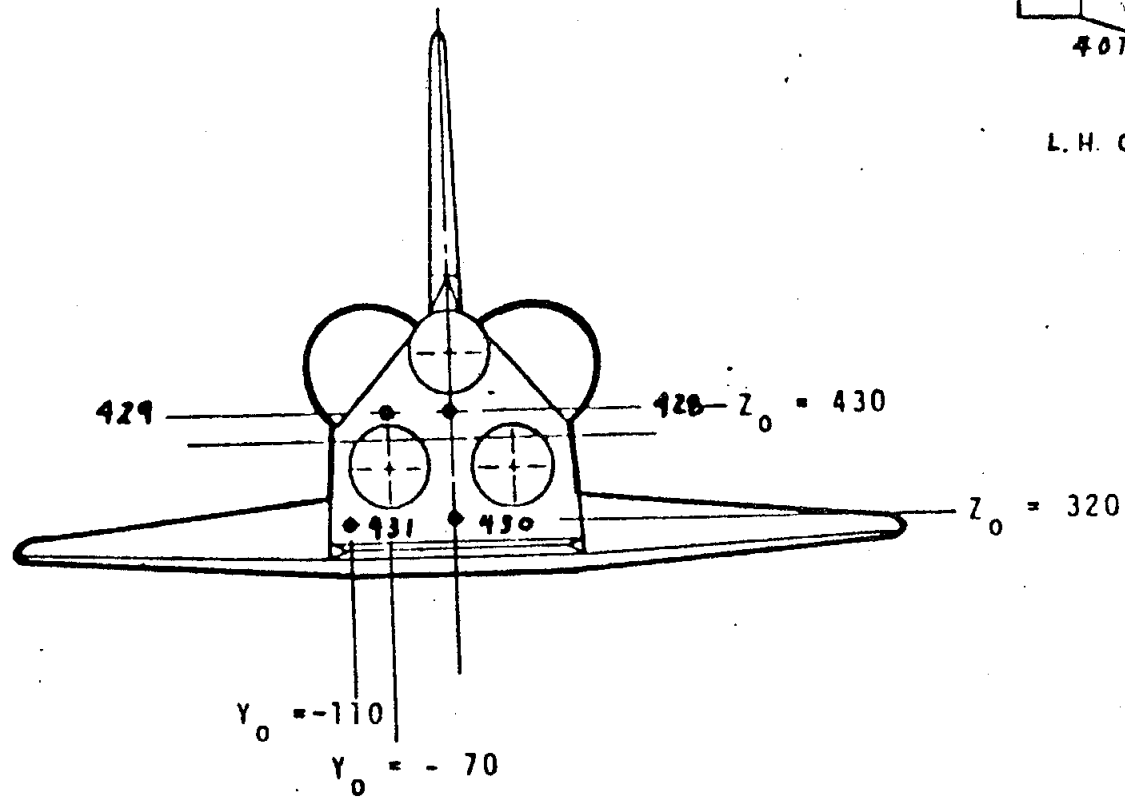
f. Vertical Tail
Fig. 7 Continued

g. Upper Right Wing
Fig. 7 Continued

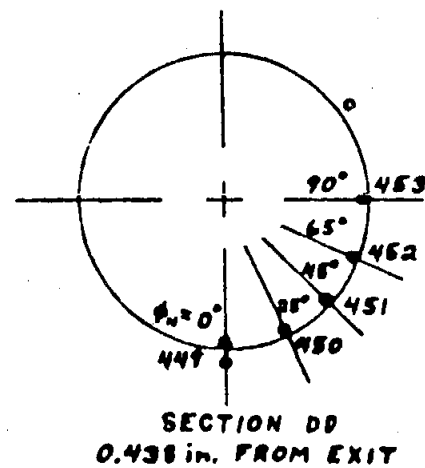
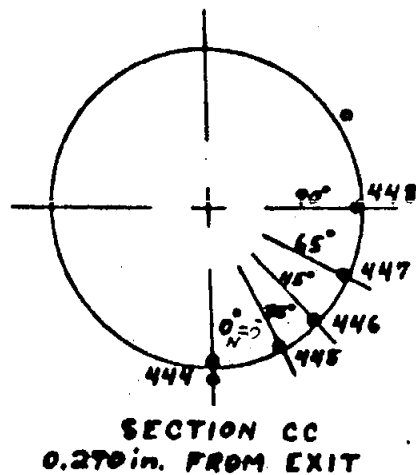
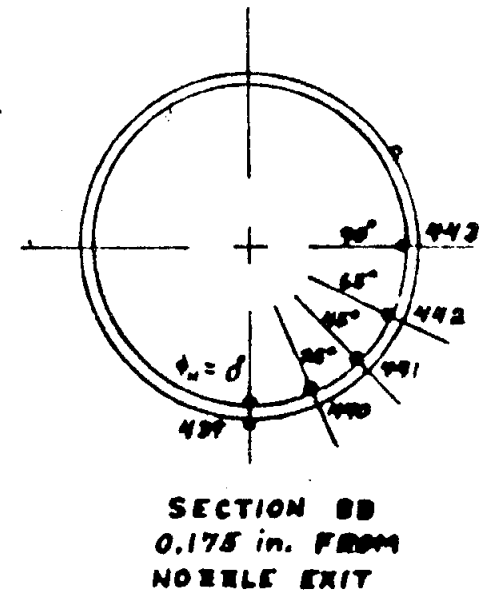
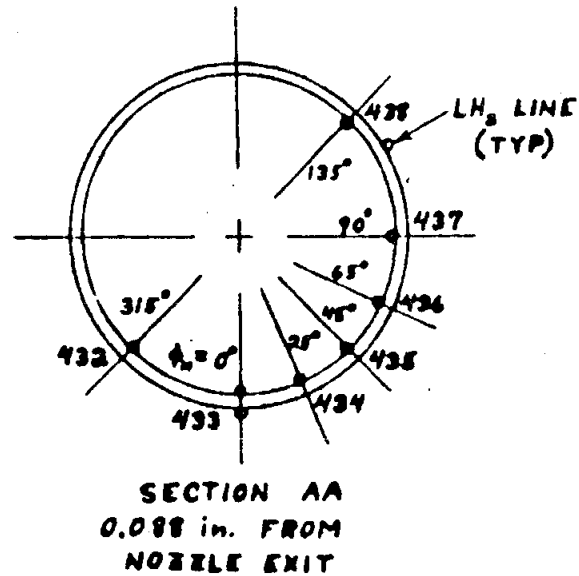
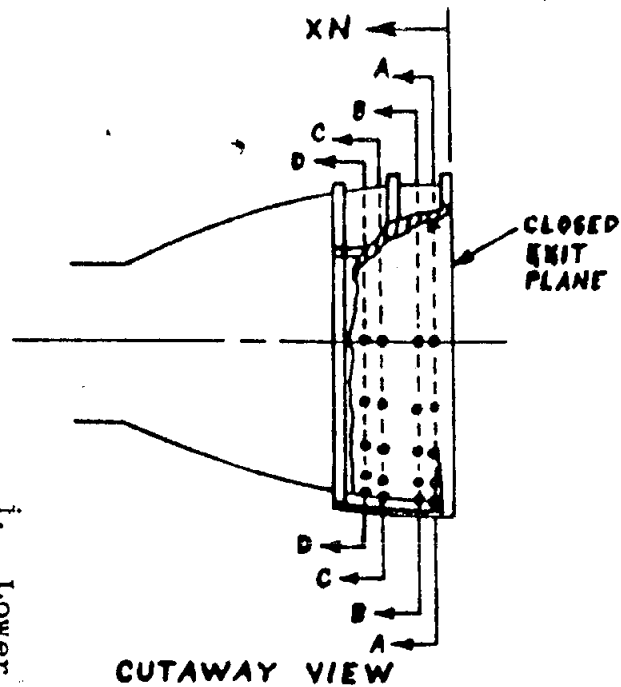




L.H. OMS NOZZLE



h. Nozzle Base Plate
Fig. 7 Continued



ALL DIMENSIONS IN INCHES (MODEL SCALE)

f. Lower Right SSME Nozzle
FIG. 7 Concluded

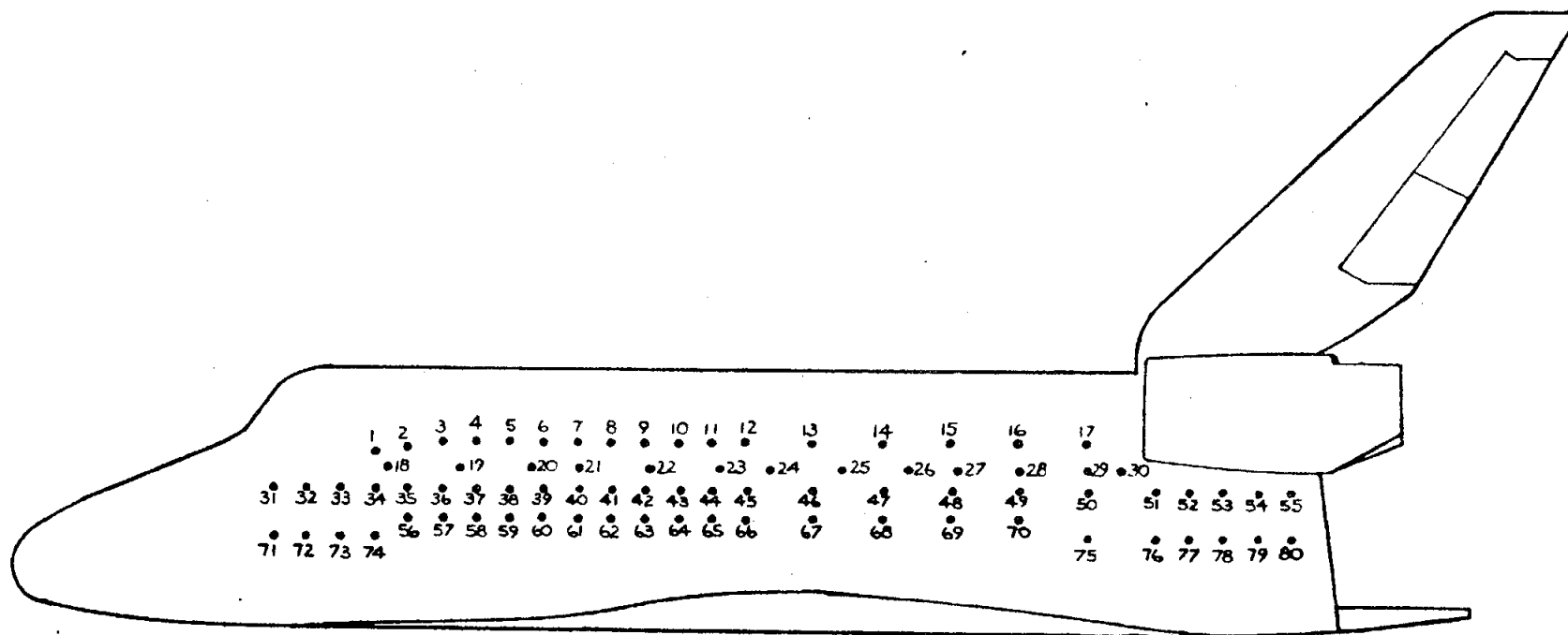
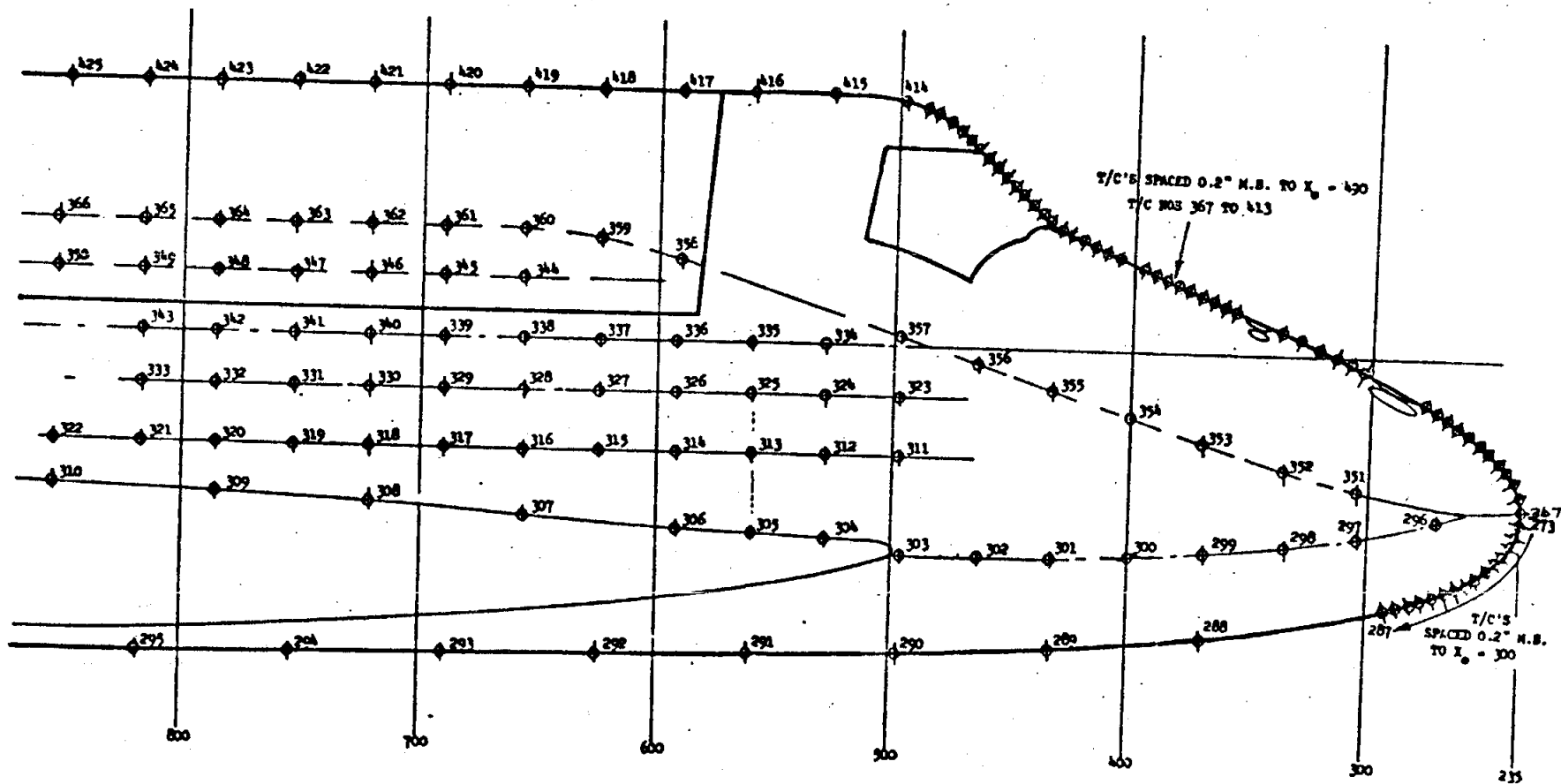
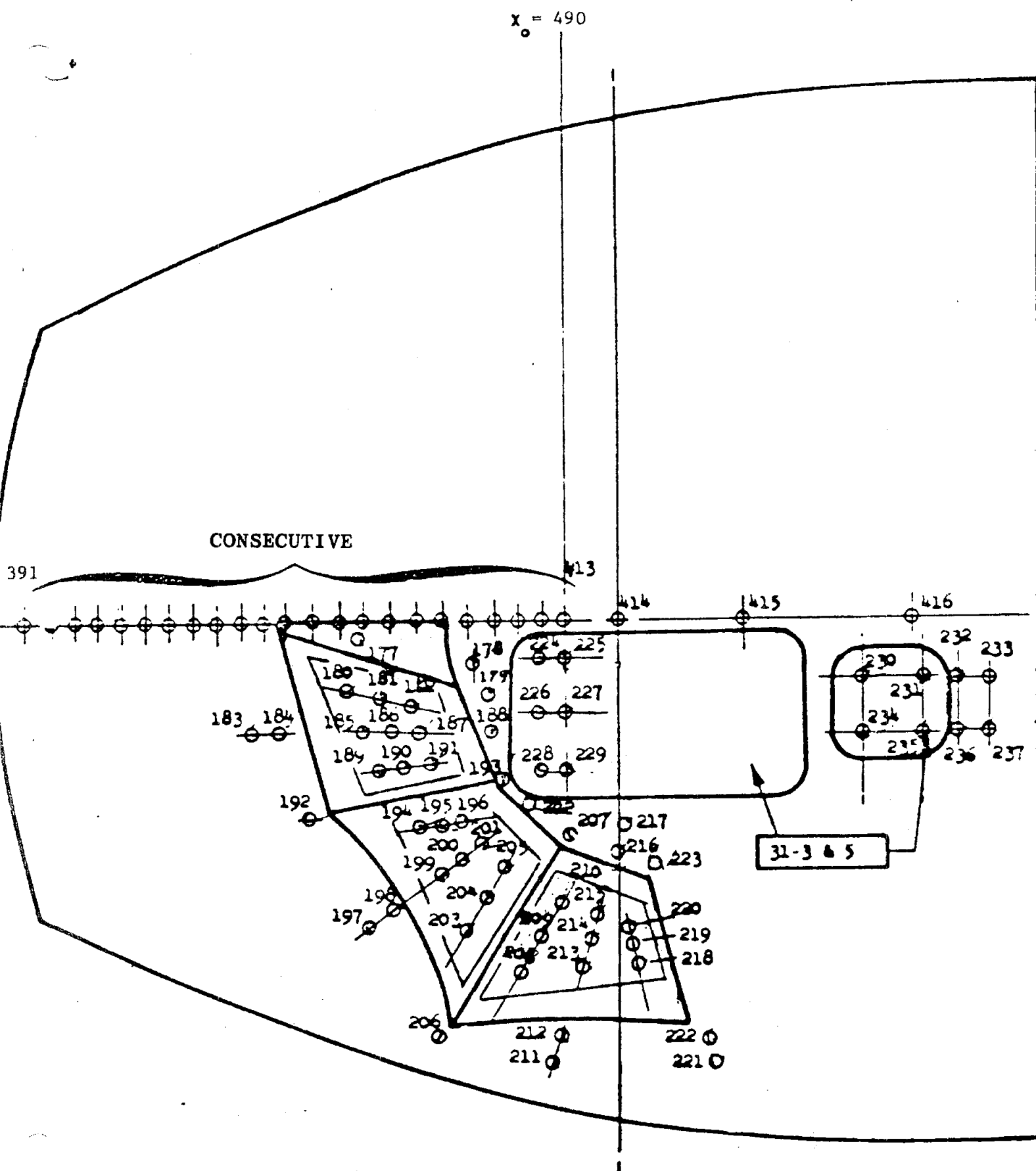


Fig. 8. Thermocouple Locations on 56-Ø Model

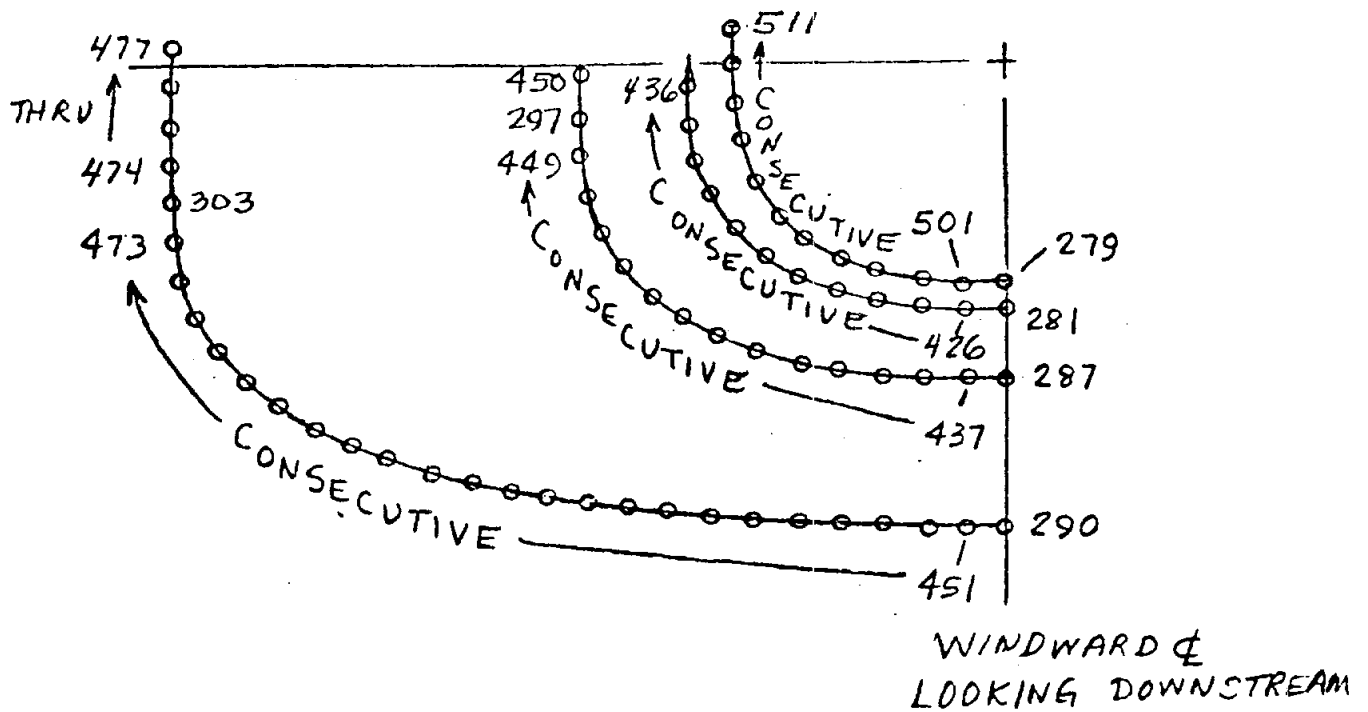
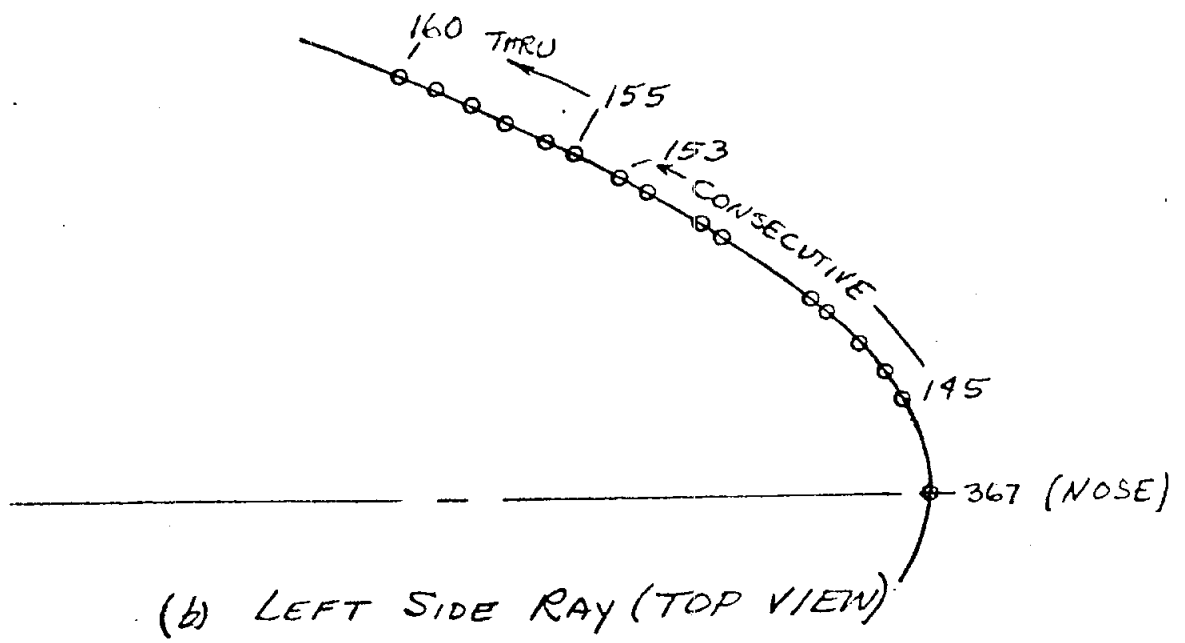


a. T/C Locations on Fuselage Right Side

Fig. 9 Thermocouple Locations on 83-Ø Model

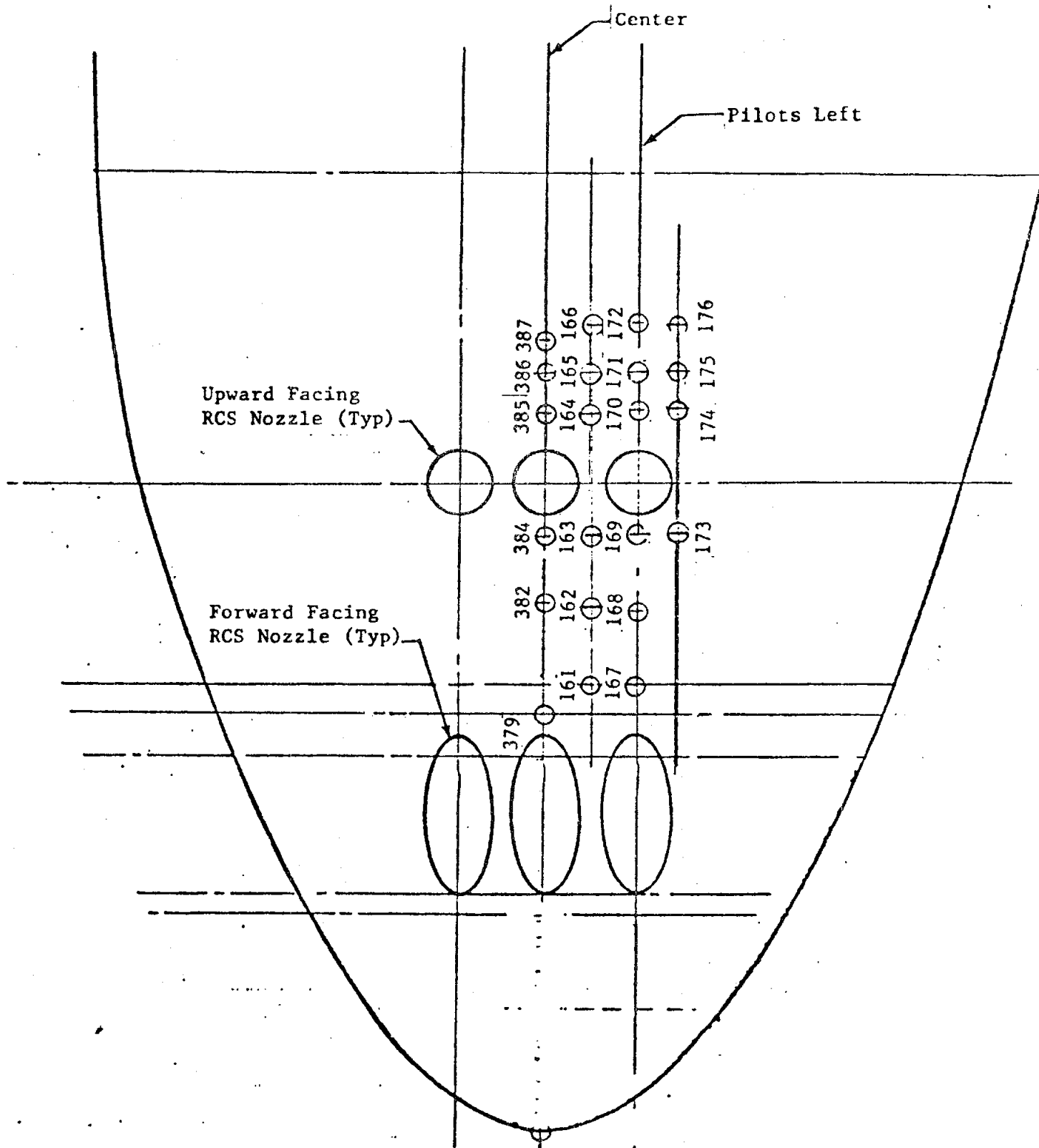


b. Canopy T/C Locations
Fig. 9 Continued

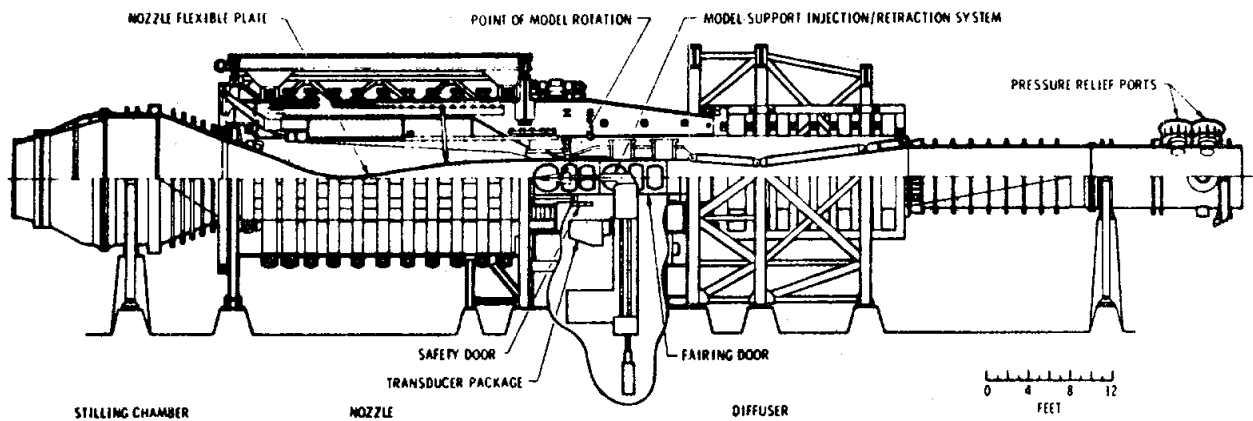


c. Radial Locations

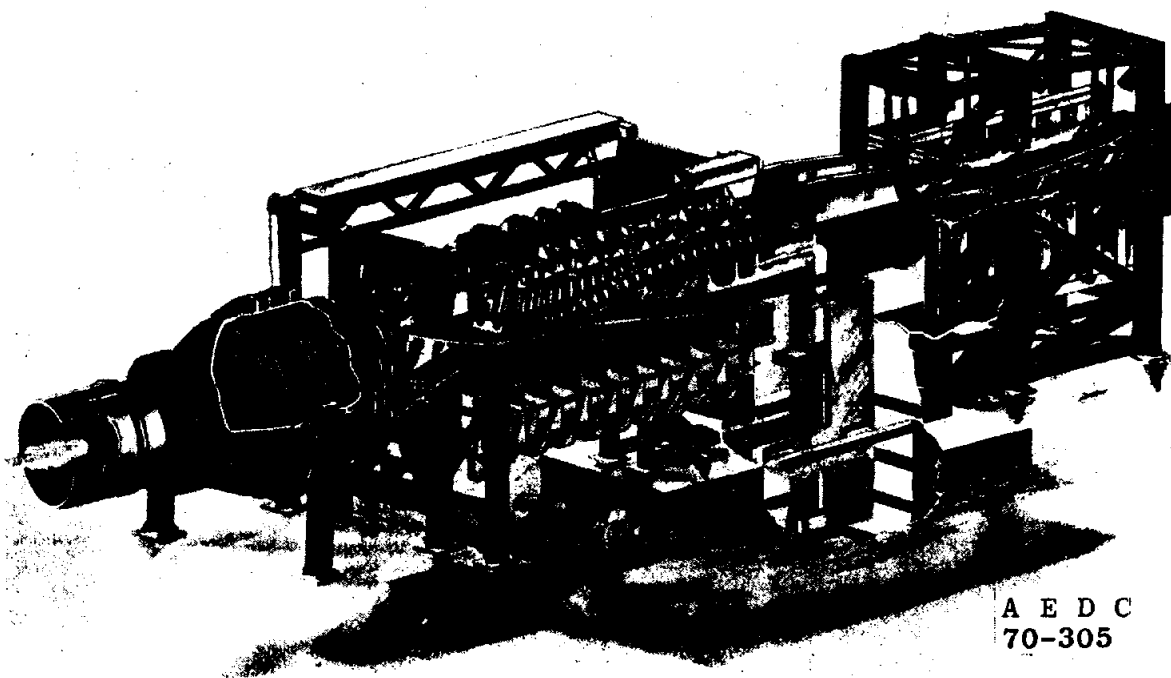
Fig. 9 Continued



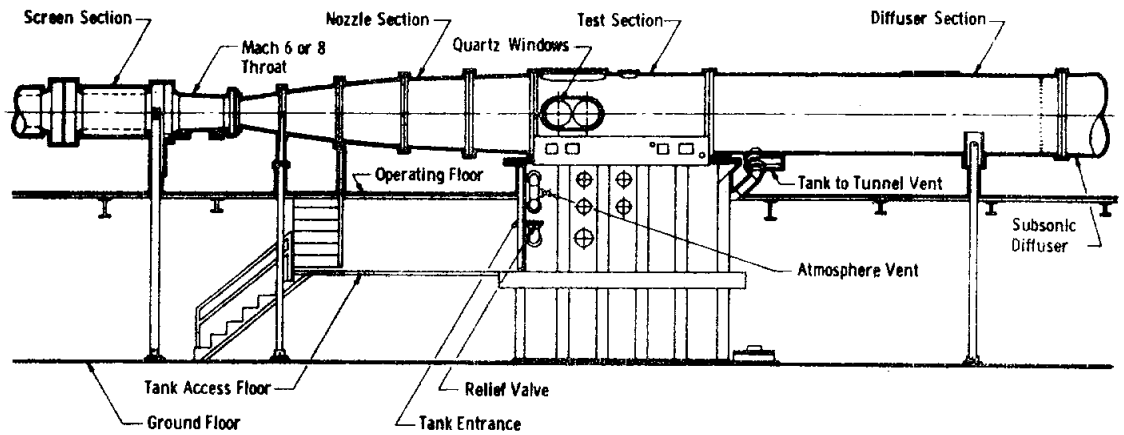
d. Upper Nose T/C Locations
Fig. 9 Concluded



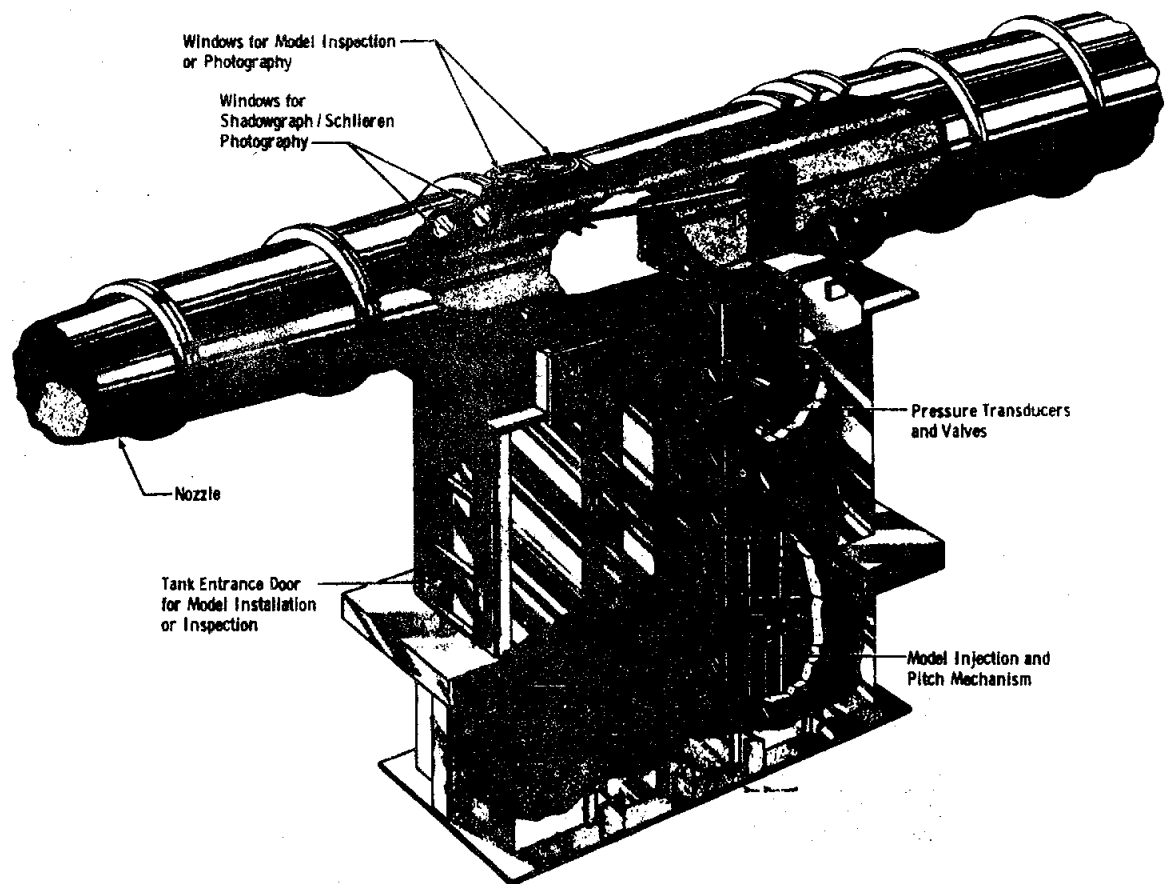
a. Tunnel assembly



b. Tunnel test section
Fig. 10 Tunnel A



a. Tunnel assembly



b. Tunnel test section
Fig. 11 Tunnel B

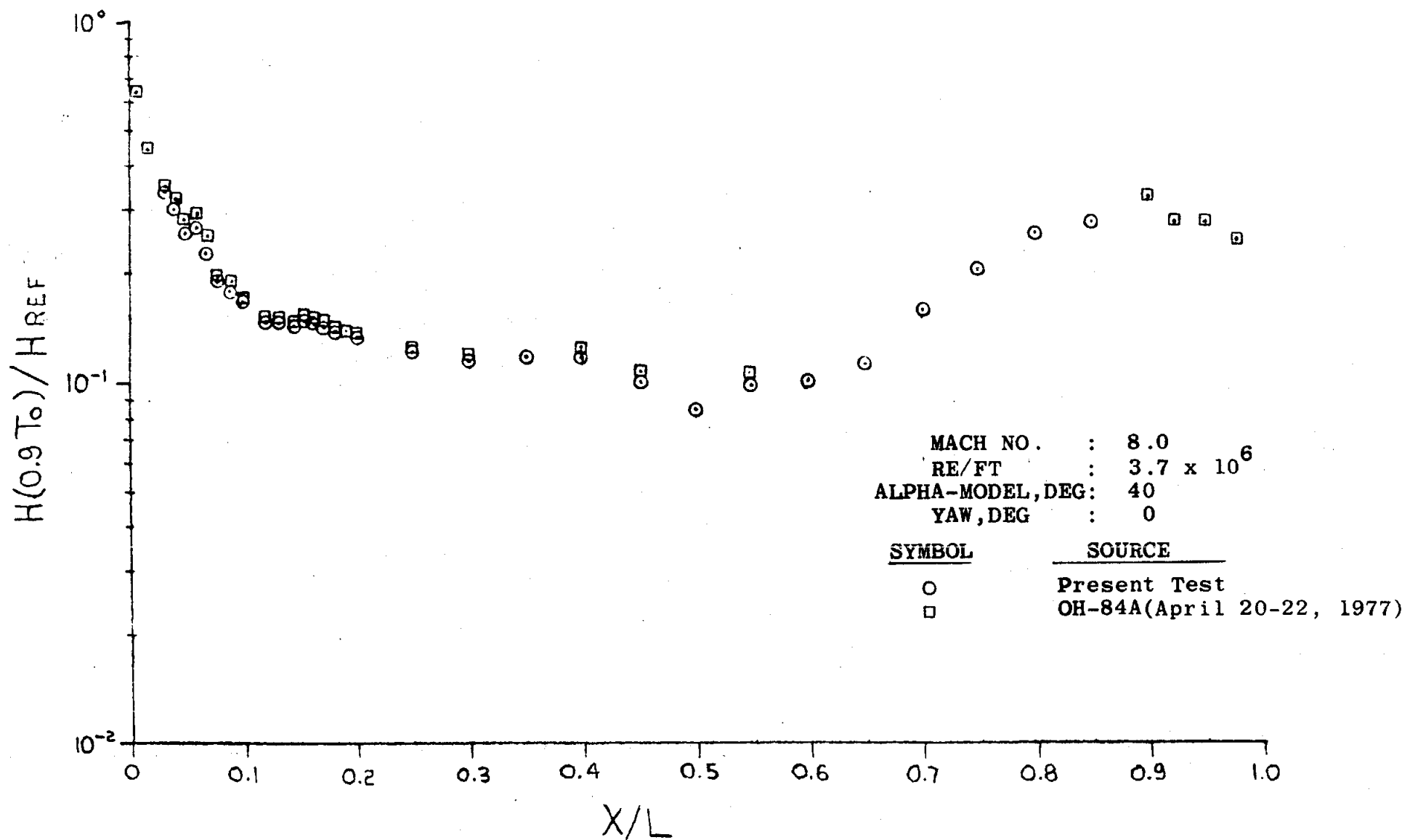


Fig. 12 Comparison of Current and Previous Test Results

APPENDIX

TABULATED SOURCE DATA

MODEL	DATASET		TEST IDENTIFICATION					
	4TH	COMPONENT	OH84B		OH105		IH102	
	CHARACTER *	DESCRIPTION	VOL.	PAGES	VOL.	PAGES	VOL.	PAGES
60	A	FUSELAGE	1	1-284	5	1-37	6	1-89
	B	FUSELAGE		285-444		38-62		-
	C	FUSELAGE		445-586		63-74		90-122
	D	LOWER NOSE		587-650		75-86		123-155
	E	LOWER NOSE		651-714		87-99		156-188
	F	LOWER MID FUSELAGE		715-778		100-111		-
	G	LOWER AFT FUSELAGE	2	779-874		112-124		-
	H	LOWER ELEVON FUSELAGE		875-970		-		-
	I	AFT FUSELAGE/ELEVON		971-1126		125-137		189-221
		SPLITLINE						
	J	UPPER RH WING		1127-1281		138-149		222-252
	K	LOWER BODY FLAP		1282-1377		150-162		-
	L	BODYFLAP EDGE		1378-1473		163-175		-
	M	VERTICAL TAIL		1474-1535		176-187		253-257
	N	UPPER MID FUSELAGE		1536-1655		188-211		258-320
	O	UPPER RH WING	3	1656-1811		212-223		321-353
	P	WING MISC		1812-1907		224-236		354-386
	Q	WING LOWER SURFACE		1908-2228		237-274		-
	R	WING UPPER SURFACE		2229-2484		275-299		387-450
	S	OMS POD	4	2485-2618		300-323		451-516
	T	VERTICAL TAIL		2619-2752		324-347		550-615
60	U	SPEEDBRAKE CAVITY		2753-2756		-		-
56	V	FUSELAGE		-		-		649-731
60	W	WINDOWS		2757-2820		348-359		616-648
	X	OMS POD		2821-2887		360-371		517-549
	Y	SSME NOZZLE		2888-3079		-		-
60	X	UPPER BODY FLAP		3080-3175		-		-
60	1	ORBITER BASE		3176-3269		-		-
83	2	CCL LINE		-		-		776-785
	3	FUSELAGE		-		-		756-775
	4	PILOT RT (X-SECT)		-		387-414		806-825
	5	TOP CENTERLINE		-		415-443		786-805
	6	MHB LINE		-		444-457		746-755
	7	BOTTOM CENTERLINE		-		458-471		732-745
	8	CANOPY		-		472-501		-
	9	UPPER RCS NOZZLES		-		502-516		-
83	0	ESC HTCH + WINDOWS		-		372-386		-

*1. Some components are collated into separate groups due to different geometric descriptions of the thermocouples groupings.

2. In the tabulated data, the thermocouples numbered ###A appear as 2### and ###C appear as 1###.

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DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 1

OH84B 60-0 FUSELAGE

(R4QA01)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 25.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = 49.00

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
5	3.644	8.000	24.96	.8346-02	847.3	1356.	98.24	.8678-01	3.888	3887.	.2384-02	.7905-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
5	.4898-01	.2119-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
5	.00000	.30000-01	5.0000	.2131	.2602	.2392	.9398	.1044-01	.1171-01	7.823	42.24	606.1
5	.00000	.40000-01	6.0000	.1867	.2276	.2124	.9327	.9146-02	.1040-01	6.908	37.41	600.3
5	.00000	.50000-01	7.0000	.1540	.1878	.1771	.9274	.7541-02	.8675-02	5.671	37.17	603.6
5	.00000	.60000-01	8.0000	.1549	.1889	.1795	.9238	.7588-02	.8793-02	5.724	35.41	601.3
5	.00000	.70000-01	9.0000	.1294	.1577	.1516	.9201	.6339-02	.7398-02	4.798	32.51	598.7
5	.00000	.80000-01	10.000	.1046	.1272	.1227	.9173	.5123-02	.6007-02	3.903	26.51	593.7
5	.00000	.90000-01	11.000	.9762-01	.1185	.1147	.9153	.4781-02	.5619-02	3.679	22.93	586.2
5	.00000	.10000+00	12.000	.8809-01	.1068	.1039	.9134	.4314-02	.5087-02	3.333	19.68	583.0
5	.00000	.12000	13.000	.7525-01	.9112-01	.8908-01	.9108	.3685-02	.4363-02	2.869	15.71	577.2
5	.00000	.13000	14.000	.7182-01	.8699-01	.8519-01	.9100	.3517-02	.4172-02	2.734	15.76	578.4
5	.00000	.14000	15.000	.6774-01	.8203-01	.8044-01	.9094	.3318-02	.3940-02	2.582	16.16	577.4
5	.00000	.15000	16.000	.6972-01	.8448-01	.8291-01	.9089	.3415-02	.4060-02	2.650	16.11	579.6
5	.00000	.16000	17.000	.6923-01	.8386-01	.8241-01	.9083	.3391-02	.4036-02	2.635	16.03	578.5
5	.00000	.17000	18.000	.6801-01	.8240-01	.8108-01	.9077	.3331-02	.3971-02	2.585	16.16	579.5
5	.00000	.18000	19.000	.6670-01	.8081-01	.7958-01	.9073	.3267-02	.3898-02	2.537	15.87	579.1
5	.00000	.20000	21.000	.6446-01	.7804-01	.7706-01	.9060	.3157-02	.3774-02	2.459	15.40	576.7
5	.00000	.25000	23.000	.5883-01	.7124-01	.7065-01	.9040	.2881-02	.3460-02	2.243	14.04	577.3
5	.00000	.30000	24.000	.5333-01	.6456-01	.6402-01	.9040	.2612-02	.3136-02	2.036	12.76	576.0
5	.00000	.35000	25.000	.5353-01	.6480-01	.6427-01	.9040	.2622-02	.3148-02	2.043	12.80	576.3
5	.00000	.40000	26.000	.5133-01	.6218-01	.6167-01	.9040	.2514-02	.3020-02	1.951	12.56	579.4
5	.00000	.45000	1027.0	.4568-01	.5536-01	.5490-01	.9040	.2237-02	.2689-02	1.734	11.49	580.6

DATE 23 FEB 80

QH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 2

QH84B 60-0 FUSELAGE

(R4UA01)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
5	.00000	.50000	1028.0	.4238-01	.5136-01	.5093-01	.9046	.2076-02	.2495-02	1.610	11.01	580.0
5	.00000	.55000	1029.0	.4256-01	.5164-01	.5121-01	.9040	.2084-02	.2508-02	1.607	11.69	584.7
5	.00000	.60000	1030.0	.4011-01	.4868-01	.4827-01	.9040	.1965-02	.2364-02	1.514	11.01	585.0
5	.00000	.65000	1031.0	.3558-01	.4319-01	.4283-01	.9040	.1743-02	.2098-02	1.341	9.756	585.9
5	.00000	.70000	1032.0	.3771-01	.4571-01	.4533-01	.9040	.1847-02	.2220-02	1.431	10.79	580.8
5	.00000	.75000	1033.0	.4021-01	.4875-01	.4835-01	.9040	.1969-02	.2368-02	1.524	11.11	581.8
5	.00000	.80000	1034.0	.5186-01	.6291-01	.6239-01	.9040	.2540-02	.3055-02	1.959	14.26	584.2
5	.00000	.85000	1035.0	.5688-01	.6901-01	.6918-01	.8989	.2786-02	.3388-02	2.149	16.18	584.3
5	10.000	.10000+00	45.000	.9885-01	.1200	.1200	.9000	.4841-02	.5875-02	3.730	22.62	585.1
5	14.000	.50000-01	44.000	.1554	.1892	.1892	.9000	.7609-02	.9267-02	5.768	39.09	597.7
5	20.000	.10000+00	207.00	.1423	.1733	.1733	.9000	.6967-02	.8486-02	5.276	30.10	598.4
5	20.000	.15000	211.00	.8313-01	.1008	.1008	.9000	.4072-02	.4937-02	3.147	19.65	582.6
5	22.000	.50000-01	202.00	.1989	.2424	.2424	.9000	.9742-02	.1187-01	7.367	39.91	599.5
5	24.000	.20000	48.000	.5783-01	.7014-01	.7014-01	.9000	.2832-02	.3435-02	2.187	19.11	583.5
5	24.500	.10000+00	208.00	.1500	.1828	.1828	.9000	.7345-02	.8953-02	5.547	34.32	600.6
5	25.500	.15000	212.00	.9272-01	.1129	.1129	.9000	.4541-02	.5530-02	3.444	29.89	597.3
5	31.500	.20000	215.00	.6343-01	.7714-01	.7714-01	.9000	.3107-02	.3778-02	2.371	23.44	592.4
5	35.000	.50000-01	203.00	.1617	.1967	.1967	.9000	.7922-02	.9635-02	6.041	37.52	593.1
5	35.000	.20000	216.00	.6889-01	.8380-01	.8380-01	.9000	.3374-02	.4104-02	2.572	25.41	593.5
5	39.000	.10000+00	209.00	.9064-01	.1098	.1098	.9000	.4439-02	.5377-02	3.450	21.59	578.5
5	40.000	.15000	213.00	.1236	.1510	.1510	.9000	.6054-02	.7395-02	4.527	32.56	608.0
5	40.000	.20000	217.00	.6837-01	.8330-01	.8330-01	.9000	.3349-02	.4080-02	2.533	27.45	599.3
5	42.500	.50000-01	204.00	.8740-01	.1058	.1058	.9000	.4281-02	.5182-02	3.337	22.16	576.2
5	45.500	.15000	214.00	.7602-01	.9192-01	.9192-01	.9000	.3723-02	.4502-02	2.917	16.86	572.1
5	51.000	.20000	218.00	.3987-01	.4808-01	.4808-01	.9000	.1953-02	.2355-02	1.550	9.779	561.8
5	60.000	.50000-01	205.00	.4019-01	.4843-01	.4843-01	.9000	.1968-02	.2372-02	1.567	10.50	559.4
5	67.500	.20000	219.00	.2607-01	.3142-01	.3142-01	.9000	.1277-02	.1539-02	1.015	7.478	560.4
5	96.500	.20000	1220.0	.2062-01	.2483-01	.2483-01	.9000	.1010-02	.1216-02	.8082	5.775	555.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 3

OH84B 60-0 FUSELAGE

(R4UA02)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
157	2.008	7.980	29.94	-4.034	434.8	1299.	94.54	.4527-01	2.018	3804.	.1292-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R)
157	.3502-01	.2866-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
157	.00000	.30000-01	5.0000	.2331	.2841	.2560	.9502	.8165-02	.8965-02	5.914	32.44	574.4
157	.00000	.40000-01	6.0000	.2110	.2569	.2348	.9433	.7388-02	.8221-02	5.363	29.44	572.7
157	.00000	.50000-01	7.0000	.1758	.2143	.1977	.9382	.6155-02	.6924-02	4.447	29.54	576.2
157	.00000	.60000-01	8.0000	.1790	.2182	.2029	.9346	.6270-02	.7105-02	4.533	28.40	575.7
157	.00000	.70000-01	9.0000	.1522	.1854	.1737	.9309	.5329-02	.6083-02	3.859	26.45	574.6
157	.00000	.80000-01	10.000	.1228	.1494	.1409	.9281	.4302-02	.4934-02	3.140	21.59	568.8
157	.00000	.90000-01	11.000	.1150	.1397	.1323	.9261	.4027-02	.4632-02	2.961	18.66	563.4
157	.00000	.10000+30	12.000	.1054	.1279	.1216	.9241	.3690-02	.4259-02	2.721	16.24	561.2
157	.00000	.12000	13.000	.9278-01	.1125	.1076	.9215	.3249-02	.3768-02	2.407	13.31	558.0
157	.00000	.13000	14.000	.8959-01	.1086	.1041	.9207	.3137-02	.3645-02	2.322	13.52	558.4
157	.00000	.14000	15.000	.8477-01	.1029	.9865-01	.9200	.2969-02	.3455-02	2.191	13.83	560.5
157	.00000	.15000	16.000	.8789-01	.1067	.1024	.9196	.3078-02	.3585-02	2.272	13.94	560.5
157	.00000	.16000	17.000	.8660-01	.1051	.1010	.9189	.3033-02	.3537-02	2.239	13.74	560.4
157	.00000	.17000	18.000	.8511-01	.1033	.9942-01	.9183	.2981-02	.3482-02	2.197	13.86	561.6
157	.00000	.18000	19.000	.8306-01	.1008	.9709-01	.9179	.2909-02	.3400-02	2.146	13.54	560.9
157	.00000	.20000	21.000	.8113-01	.9842-01	.9506-01	.9166	.2841-02	.3329-02	2.100	13.27	559.4
157	.00000	.25000	23.000	.7327-01	.8892-01	.8627-01	.9144	.2566-02	.3021-02	1.893	11.95	560.8
157	.00000	.30000	24.000	.6886-01	.8356-01	.8106-01	.9144	.2411-02	.2839-02	1.780	11.24	560.6
157	.00000	.35000	25.000	.7127-01	.8651-01	.8392-01	.9144	.2496-02	.2939-02	1.840	11.61	561.5
157	.00000	.40000	26.000	.6921-01	.8407-01	.8155-01	.9144	.2424-02	.2856-02	1.781	11.56	563.8
157	.00000	.45000	1027.0	.6210-01	.7544-01	.7317-01	.9144	.2175-02	.2582-02	1.598	10.68	564.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 4

OH84B 60-0 FUSELAGE

(R4UA02)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
157	.00000	.50000	1028.0	.5729-01	.6959-01	.6750-01	.9144	.2006-02	.2364-02	1.474	10.16	563.8
157	.00000	.55000	1029.0	.5740-01	.6979-01	.6768-01	.9144	.2010-02	.2370-02	1.471	10.80	566.7
157	.00000	.60000	1030.0	.5243-01	.6372-01	.6180-01	.9144	.1836-02	.2164-02	1.346	9.886	565.7
157	.00000	.65000	1031.0	.4654-01	.5655-01	.5485-01	.9144	.1630-02	.1921-02	1.196	8.790	564.9
157	.00000	.70000	1032.0	.4569-01	.5539-01	.5375-01	.9144	.1600-02	.1882-02	1.186	9.050	557.4
157	.00000	.75000	1033.0	.4285-01	.5194-01	.5040-01	.9144	.1501-02	.1765-02	1.113	8.215	556.7
157	.00000	.80000	1034.0	.4731-01	.5735-01	.5565-01	.9144	.1657-02	.1949-02	1.229	9.069	556.8
157	.00000	.85000	1035.0	.4670-01	.5659-01	.5552-01	.9091	.1635-02	.1944-02	1.215	9.275	555.9
157	10.000	.10000+00	45.000	.1199	.1456	.1456	.9000	.4198-02	.5099-02	3.087	18.92	563.4
157	14.000	.50000-01	44.000	.1816	.2211	.2211	.9000	.6358-02	.7742-02	4.620	31.72	572.0
157	20.000	.10000+00	207.00	.1727	.2105	.2105	.9000	.6050-02	.7372-02	4.380	25.29	574.7
157	20.000	.15000	211.00	.1056	.1282	.1282	.9000	.3700-02	.4491-02	2.726	17.20	561.9
157	22.000	.50000-01	202.00	.2342	.2857	.2857	.9000	.8203-02	.1001-01	5.915	32.39	577.7
157	24.000	.20000	48.000	.7725-01	.9385-01	.9385-01	.9000	.2705-02	.3287-02	1.986	17.52	564.5
157	24.500	.10000+00	208.00	.1862	.2272	.2272	.9000	.6522-02	.7958-02	4.694	29.36	578.9
157	25.500	.15000	212.00	.1181	.1440	.1440	.9000	.4137-02	.5043-02	2.992	26.25	575.5
157	31.500	.20000	215.00	.8545-01	.1041	.1041	.9000	.2993-02	.3644-02	2.173	21.70	572.4
157	35.000	.50000-01	203.00	.1926	.2347	.2347	.9000	.6746-02	.8220-02	4.888	30.64	574.2
157	35.000	.20000	216.00	.9299-01	.1133	.1133	.9000	.3256-02	.3967-02	2.361	23.55	573.7
157	39.000	.10000+00	209.00	.1121	.1360	.1360	.9000	.3925-02	.4761-02	2.900	18.32	559.6
157	40.000	.15000	213.00	.1633	.1996	.1996	.9000	.5719-02	.6991-02	4.079	29.68	585.3
157	40.000	.20000	217.00	.9455-01	.1154	.1154	.9000	.3311-02	.4042-02	2.378	26.01	580.5
157	42.500	.50000-01	204.00	.1002	.1214	.1214	.9000	.3508-02	.4252-02	2.602	17.45	556.8
157	45.500	.15000	214.00	.1009	.1222	.1222	.9000	.3532-02	.4280-02	2.624	15.29	555.7
157	51.000	.20000	218.00	.5531-01	.6689-01	.6689-01	.9000	.1937-02	.2342-02	1.453	9.231	548.3
157	60.000	.50000-01	205.00	.3853-01	.4651-01	.4651-01	.9000	.1349-02	.1629-02	1.020	6.892	542.5
157	67.500	.20000	219.00	.3234-01	.3910-01	.3910-01	.9000	.1133-02	.1369-02	.8508	6.307	547.5
157	96.500	.20000	1220.0	.2652-01	.3205-01	.3205-01	.9000	.9287-03	.1122-02	.6993	5.022	545.7

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA02)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
117	3.002	7.990	29.96	-4.030	671.8	1325.	96.21	.6938-01	3.100	3842.	.1946-02	.7742-07
118	3.023	7.990	29.94	-4.046	673.4	1321.	95.92	.6954-01	3.108	3836.	.1957-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
117	.4356-01	.2340-01
118	.4359-01	.2333-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
117	.00000	.00000	1.0000	.5786	.7230	.6109	.9735	.2520-01	.2661-01	16.72	87.89	661.4
117	.00000	.50000-02	2.0000	.5441	.6889	.5594	.9870	.2370-01	.2437-01	14.94	96.65	694.4
117	.00000	.10000-01	3.0000	.4642	.5809	.4817	.9818	.2022-01	.2098-01	13.33	84.78	665.4
117	.00000	.20000-01	4.0000	.3244	.3979	.3497	.9608	.1413-01	.1523-01	10.13	54.65	607.9
118	.00000	.30000-01	5.0000	.2335	.2849	.2566	.9502	.1018-01	.1118-01	7.460	40.65	587.8
118	.00000	.40000-01	6.0000	.2104	.2563	.2342	.9433	.9171-02	.1021-01	6.770	36.98	582.6
118	.00000	.50000-01	7.0000	.1730	.2110	.1947	.9382	.7540-02	.8484-02	5.526	36.50	587.7
118	.00000	.60000-01	8.0000	.1770	.2159	.2007	.9346	.7716-02	.8747-02	5.660	35.26	587.1
118	.00000	.70000-01	9.0000	.1510	.1841	.1724	.9309	.6582-02	.7515-02	4.837	32.98	585.8
118	.00000	.80000-01	10.000	.1227	.1494	.1408	.9281	.5348-02	.6137-02	3.954	27.02	581.3
118	.00000	.90000-01	11.000	.1149	.1397	.1322	.9261	.5010-02	.5764-02	3.739	23.44	574.4
118	.00000	.10000+00	12.000	.1055	.1280	.1217	.9241	.4597-02	.5307-02	3.443	20.45	571.7
118	.00000	.12000	13.000	.9230-01	.1119	.1070	.9215	.4023-02	.4664-02	3.034	16.71	566.5
118	.00000	.13000	14.000	.8825-01	.1070	.1025	.9207	.3847-02	.4468-02	2.898	16.79	567.3
118	.00000	.14000	15.000	.8379-01	.1017	.9751-01	.9200	.3652-02	.4250-02	2.741	17.22	570.1
118	.00000	.15000	16.000	.8702-01	.1056	.1014	.9196	.3793-02	.4418-02	2.846	17.38	570.3
118	.00000	.16000	17.000	.8619-01	.1046	.1005	.9189	.3757-02	.4382-02	2.820	17.22	570.1
118	.00000	.17000	18.000	.8504-01	.1032	.9935-01	.9183	.3707-02	.4331-02	2.776	17.42	571.8
118	.00000	.18000	19.000	.8275-01	.1004	.9675-01	.9179	.3607-02	.4217-02	2.704	16.98	570.9

OH84B 60-0 FUSELAGE

(R4UA02)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
118	.00000	.20000	21.000	.8066-01	.9787-01	.9452-01	.9166	.3516-02	.4120-02	2.641	16.60	569.5
118	.00000	.25000	23.000	.7303-01	.8870-01	.8604-01	.9144	.3183-02	.3750-02	2.380	14.93	573.1
118	.00000	.30000	24.000	.6917-01	.8402-01	.8149-01	.9144	.3015-02	.3552-02	2.254	14.14	573.1
118	.00000	.35000	25.000	.7187-01	.8733-01	.8470-01	.9144	.3133-02	.3692-02	2.337	14.65	574.6
118	.00000	.40000	26.000	.7160-01	.8707-01	.8444-01	.9144	.3121-02	.3680-02	2.319	14.94	577.6
118	.00000	.45000	1027.0	.6057-01	.7368-01	.7145-01	.9144	.2640-02	.3114-02	1.959	13.00	578.6
118	.00000	.50000	1028.0	.6442-01	.7814-01	.7581-01	.9144	.2808-02	.3304-02	2.113	14.53	568.2
118	.00000	.55000	1029.0	.5659-01	.6893-01	.6683-01	.9144	.2467-02	.2913-02	1.819	13.24	583.3
118	.00000	.60000	1030.0	.5353-01	.6519-01	.6321-01	.9144	.2333-02	.2755-02	1.723	12.55	582.4
118	.00000	.65000	1031.0	.4582-01	.5580-01	.5410-01	.9144	.1997-02	.2358-02	1.475	10.74	582.3
118	.00000	.70000	1032.0	.4678-01	.5685-01	.5514-01	.9144	.2039-02	.2403-02	1.520	11.50	575.1
118	.00000	.75000	1033.0	.4631-01	.5627-01	.5458-01	.9144	.2018-02	.2379-02	1.506	11.01	574.7
118	.00000	.80000	1034.0	.5482-01	.6662-01	.6461-01	.9144	.2389-02	.2816-02	1.782	13.03	575.0
118	.00000	.85000	1035.0	.5861-01	.7122-01	.6985-01	.9091	.2555-02	.3044-02	1.906	14.42	574.5
118	10.000	.10000+00	45.000	.1207	.1466	.1466	.9000	.5261-02	.6392-02	3.928	23.95	574.0
118	14.000	.50000-01	44.000	.1817	.2216	.2216	.9000	.7920-02	.9658-02	5.814	39.62	586.6
118	20.000	.10000+00	207.00	.1737	.2118	.2118	.9000	.7571-02	.9234-02	5.554	31.87	587.1
118	20.000	.15000	211.00	.1052	.1277	.1277	.9000	.4586-02	.5568-02	3.432	21.54	572.3
118	22.000	.50000-01	202.00	.2339	.2855	.2855	.9000	.1020-01	.1244-01	7.452	40.57	589.7
118	24.000	.20000	48.000	.7626-01	.9274-01	.9274-01	.9000	.3324-02	.4042-02	2.471	21.65	577.4
118	24.500	.10000+00	208.00	.1846	.2253	.2253	.9000	.8045-02	.9819-02	5.878	36.57	589.9
118	25.500	.15000	212.00	.1123	.1368	.1368	.9000	.4893-02	.5963-02	3.602	31.45	584.6
118	31.500	.20000	215.00	.8475-01	.1034	.1034	.9000	.3694-02	.4505-02	2.709	26.85	587.3
118	35.000	.50000-01	203.00	.1929	.2347	.2347	.9000	.8409-02	.1023-01	6.235	38.99	579.2
118	35.000	.20000	216.00	.9242-01	.1128	.1128	.9000	.4029-02	.4915-02	2.949	29.21	588.6
118	39.000	.10000+00	209.00	.1143	.1386	.1386	.9000	.4984-02	.6042-02	3.758	23.65	566.7
118	40.000	.15000	213.00	.1615	.1977	.1977	.9000	.7040-02	.8617-02	5.078	36.68	599.4
118	40.000	.20000	217.00	.9216-01	.1127	.1127	.9000	.4017-02	.4914-02	2.906	31.52	587.2
118	42.500	.50000-01	204.00	.1019	.1234	.1234	.9000	.4444-02	.5380-02	3.372	22.56	561.8
118	45.500	.15000	214.00	.1014	.1227	.1227	.9000	.4419-02	.5350-02	3.351	19.47	562.2
118	51.000	.20000	218.00	.5666-01	.6846-01	.6846-01	.9000	.2470-02	.2984-02	1.893	11.99	554.2
118	60.000	.50000-01	205.00	.3838-01	.4622-01	.4622-01	.9000	.1673-02	.2015-02	1.302	8.800	542.2
118	67.500	.20000	219.00	.3293-01	.3976-01	.3976-01	.9000	.1435-02	.1733-02	1.104	8.166	551.7
118	96.500	.20000	1220.0	.2715-01	.3275-01	.3275-01	.9000	.1183-02	.1428-02	.9128	6.543	549.2
117	114.00	.40000	388.00	.1971-01	.2376-01	.2376-01	.9000	.8588-03	.1035-02	.6688	4.802	545.9
117	114.00	.50000	390.00	.2444-01	.2945-01	.2945-01	.9000	.1065-02	.1283-02	.8297	5.131	545.4
117	114.00	.70000	394.00	.5665-01	.6838-01	.6838-01	.9000	.2467-02	.2978-02	1.905	12.43	552.5
117	157.50	.40000	223.00	.2217-02	.2664-02	.2664-02	.9000	.9656-04	.1160-03	.7623-01	.5017	535.2
117	157.50	.50000	225.00	.3904-02	.4694-02	.4694-02	.9000	.1700-03	.2044-03	.1338	.8796	537.7
117	157.50	.70000	229.00	.9078-02	.1091-01	.1091-01	.9000	.3954-03	.4751-03	.3122	2.329	535.0
117	157.50	.80000	231.00	.1539-01	.1849-01	.1849-01	.9000	.6702-03	.8056-03	.5283	3.692	536.4
117	180.80	.40000	182.00	.5992-02	.7205-02	.7205-02	.9000	.2610-03	.3139-03	.2053	1.765	538.0
117	180.00	.50000	184.00	.5186-02	.6234-02	.6234-02	.9000	.2259-03	.2716-03	.1780	1.592	536.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA02)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
117	180.00	.60000	186.00	.4862-02	.5843-02	.5843-02	.9000	.2118-03	.2545-03	.1670	1.494	536.1
117	180.00	.70000	188.00	.4972-02	.5975-02	.5975-02	.9000	.2166-03	.2603-03	.1710	1.531	535.2
117	180.00	.80000	190.00	.4936-02	.5930-02	.5930-02	.9000	.2150-03	.2583-03	.1700	1.655	534.2
117	315.00	.40000	234.00	.1495-02	.1796-02	.1796-02	.9000	.6512-04	.7825-04	.5140-01	.3834	535.3
117	315.00	.50000	236.00	.2358-02	.2833-02	.2833-02	.9000	.1027-03	.1234-03	.8115-01	.5046	534.7
117	315.00	.70000	240.00	.4565-02	.5484-02	.5484-02	.9000	.1989-03	.2389-03	.1572	1.173	534.3
117	315.00	.80000	242.00	.8519-02	.1023-01	.1023-01	.9000	.3711-03	.4457-03	.2934	2.053	534.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA02)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
130	3.691	8.000	29.96	-4.050	853.4	1351.	97.87	.8742-01	3.916	3880.	.2411-02	.7876-07
131	3.694	8.000	29.96	-4.050	855.1	1352.	97.95	.8759-01	3.924	3881.	.2414-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
130	.4912-01	.2107-01
131	.4918-01	.2106-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
130	.00000	.00000	1.0000	.5744	.7237	.6077	.9735	.2822-01	.2985-01	18.48	95.62	695.6
130	.00000	.50000-02	2.0000	.5376	.6885	.5534	.9870	.2641-01	.2718-01	16.28	103.4	734.3
130	.00000	.10000-01	3.0000	.4618	.5828	.4799	.9818	.2268-01	.2357-01	14.75	92.26	700.5
130	.00000	.20000-01	4.0000	.3274	.4031	.3534	.9608	.1608-01	.1736-01	11.57	61.71	631.3
131	.00000	.30000-01	5.0000	.2357	.2874	.2589	.9503	.1159-01	.1273-01	8.709	47.16	600.3
131	.00000	.40000-01	6.0000	.2079	.2531	.2313	.9434	.1023-01	.1138-01	7.749	42.10	593.9
131	.00000	.50000-01	7.0000	.1736	.2117	.1953	.9383	.8538-02	.9606-02	6.412	42.08	600.7
131	.00000	.60000-01	8.0000	.1777	.2167	.2014	.9346	.8741-02	.9906-02	6.567	40.65	600.3
131	.00000	.70000-01	9.0000	.1518	.1851	.1733	.9309	.7468-02	.8525-02	5.621	38.08	598.9
131	.00000	.80000-01	10.0000	.1223	.1489	.1403	.9281	.6015-02	.6900-02	4.559	30.96	593.7
131	.00000	.90000-01	11.0000	.1162	.1411	.1336	.9261	.5713-02	.6569-02	4.375	27.27	585.8
131	.00000	.10000+00	12.0000	.1067	.1295	.1231	.9242	.5249-02	.6056-02	4.036	23.84	582.7
131	.00000	.12000	13.0000	.9187-01	.1113	.1064	.9216	.4518-02	.5234-02	3.501	19.18	576.8
131	.00000	.13000	14.0000	.8911-01	.1080	.1034	.9207	.4382-02	.5086-02	3.391	19.55	577.8
131	.00000	.14000	15.0000	.8484-01	.1029	.9867-01	.9201	.4172-02	.4852-02	3.216	20.10	580.9
131	.00000	.15000	16.0000	.8821-01	.1070	.1027	.9196	.4338-02	.5050-02	3.343	20.31	581.0
131	.00000	.16000	17.0000	.8710-01	.1056	.1015	.9190	.4284-02	.4993-02	3.302	20.06	580.9
131	.00000	.17000	18.0000	.8489-01	.1030	.9912-01	.9183	.4175-02	.4874-02	3.211	20.04	582.6
131	.00000	.18000	19.0000	.8289-01	.1005	.9685-01	.9179	.4076-02	.4763-02	3.139	19.60	581.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA02)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
131	.00000	.20000	21.000	.8141-01	.9869-01	.9533-01	.9166	.4003-02	.4688-02	3.090	19.32	579.9
131	.00000	.25000	23.000	.7285-01	.8838-01	.8574-01	.9145	.3582-02	.4216-02	2.755	17.20	582.7
131	.00000	.30000	24.000	.6968-01	.8455-01	.8201-01	.9145	.3427-02	.4033-02	2.634	16.45	582.9
131	.00000	.35000	25.000	.7215-01	.8760-01	.8496-01	.9145	.3548-02	.4178-02	2.721	16.97	584.9
131	.00000	.40000	26.000	.7229-01	.8784-01	.8519-01	.9145	.3555-02	.4189-02	2.713	17.39	588.4
131	.00000	.45000	1027.0	.6105-01	.7424-01	.7198-01	.9145	.3002-02	.3540-02	2.284	15.06	590.9
131	.00000	.50000	1028.0	.9759-01	.1176	.1142	.9145	.4799-02	.5617-02	3.811	26.35	557.6
131	.00000	.55000	1029.0	.5710-01	.6956-01	.6743-01	.9145	.2808-02	.3316-02	2.119	15.33	596.9
131	.00000	.60000	1030.0	.5500-01	.6698-01	.6494-01	.9145	.2705-02	.3193-02	2.044	14.79	596.1
131	.00000	.65000	1031.0	.4742-01	.5776-01	.5600-01	.9145	.2332-02	.2754-02	1.761	12.74	596.5
131	.00000	.70000	1032.0	.5012-01	.6093-01	.5909-01	.9145	.2465-02	.2906-02	1.877	14.09	590.1
131	.00000	.75000	1033.0	.5297-01	.6442-01	.6246-01	.9145	.2605-02	.3072-02	1.981	14.37	591.1
131	.00000	.80000	1034.0	.6684-01	.8130-01	.7883-01	.9145	.3287-02	.3877-02	2.497	18.11	591.9
131	.00000	.85000	1035.0	.7486-01	.9110-01	.8932-01	.9092	.3682-02	.4393-02	2.793	20.93	593.1
131	10.000	.10000+00	45.000	.1220	.1481	.1481	.9000	.6000-02	.7285-02	4.598	27.87	585.4
131	14.000	.50000-01	44.000	.1832	.2233	.2233	.9000	.9007-02	.1098-01	6.776	45.89	599.4
131	20.000	.10000+00	207.00	.1747	.2129	.2129	.9000	.8591-02	.1047-01	6.474	36.95	598.0
131	20.000	.15000	211.00	.1060	.1286	.1286	.9000	.5211-02	.6324-02	4.002	24.97	583.6
131	22.000	.50000-01	202.00	.2363	.2884	.2884	.9000	.1162-01	.1418-01	8.702	47.07	602.9
131	24.000	.20000	48.000	.7625-01	.9269-01	.9269-01	.9000	.3750-02	.4558-02	2.858	24.89	589.5
131	24.500	.10000+00	208.00	.1863	.2274	.2274	.9000	.9161-02	.1118-01	6.851	42.33	603.8
131	25.500	.15000	212.00	.1182	.1440	.1440	.9000	.5810-02	.7080-02	4.380	38.00	597.9
131	31.500	.20000	215.00	.8510-01	.1038	.1038	.9000	.4185-02	.5104-02	3.142	30.93	600.9
131	35.000	.50000-01	203.00	.1935	.2356	.2356	.9000	.9518-02	.1159-01	7.206	44.73	694.5
131	35.000	.20000	216.00	.9254-01	.1128	.1128	.9000	.4551-02	.5549-02	3.421	33.68	600.1
131	39.000	.10000+00	209.00	.1156	.1400	.1400	.9000	.5683-02	.6883-02	4.404	27.58	576.6
131	40.000	.15000	213.00	.1623	.1987	.1987	.9000	.7981-02	.9774-02	5.880	42.16	614.9
131	40.000	.20000	217.00	.9348-01	.1143	.1143	.9000	.4597-02	.5621-02	3.412	36.79	609.5
131	42.500	.50000-01	204.00	.1023	.1237	.1237	.9000	.5033-02	.6085-02	3.932	26.20	570.3
131	45.500	.15000	214.00	.1028	.1244	.1244	.9000	.5057-02	.6118-02	3.944	22.80	571.8
131	51.000	.20000	218.00	.5703-01	.6881-01	.6881-01	.9000	.2805-02	.3384-02	2.214	13.97	562.2
131	60.000	.50000-01	205.00	.3884-01	.4668-01	.4668-01	.9000	.1910-02	.2296-02	1.537	10.36	547.2
131	67.500	.20000	219.00	.3331-01	.4017-01	.4017-01	.9000	.1638-02	.1975-02	1.298	9.561	559.6
131	96.500	.20000	1220.0	.2722-01	.3280-01	.3280-01	.9000	.1339-02	.1613-02	1.065	7.606	556.2
130	114.00	.40000	388.00	.1994-01	.2401-01	.2401-01	.9000	.9797-03	.1180-02	.7809	5.586	553.5
130	114.00	.50000	390.00	.2583-01	.3109-01	.3109-01	.9000	.1269-02	.1527-02	1.012	6.238	552.7
130	114.00	.70000	394.00	.5259-01	.6343-01	.6343-01	.9000	.2583-02	.3116-02	2.042	13.27	560.3
130	157.50	.40000	223.00	.2591-02	.3108-02	.3108-02	.9000	.1273-03	.1527-03	.1034	.6791	538.7
130	157.50	.50000	225.00	.6693-02	.8030-02	.8030-02	.9000	.3288-03	.3945-03	.2666	1.750	539.8
130	157.50	.70000	229.00	.1163-01	.1395-01	.1395-01	.9000	.5712-03	.6855-03	.4627	3.442	540.7
130	157.50	.80000	231.00	.1554-01	.1864-01	.1864-01	.9000	.7631-03	.9158-03	.6184	4.313	540.3
130	180.00	.40000	182.00	.6259-02	.7513-02	.7513-02	.9000	.3075-03	.3691-03	.2488	2.135	541.5
130	180.00	.50000	184.00	.5309-02	.6372-02	.6372-02	.9000	.2608-03	.3130-03	.2111	1.884	541.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 10

OH84B 60-0 FUSELAGE

(R4UA02)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
130	180.00	.60000	186.00	.5294-02	.6353-02	.6353-02	.9000	.2601-03	.3121-03	.2107	1.881	540.4
130	180.00	.70000	188.00	.4730-02	.5675-02	.5675-02	.9000	.2323-03	.2788-03	.1884	1.683	539.7
130	180.00	.80000	190.00	.5821-02	.6982-02	.6982-02	.9000	.2859-03	.3430-03	.2322	2.256	538.6
130	315.00	.40000	234.00	.1849-02	.2217-02	.2217-02	.9000	.9081-04	.1089-03	.7373-01	.5490	538.7
130	315.00	.50000	236.00	.2735-02	.3281-02	.3281-02	.9000	.1344-03	.1612-03	.1091	.6771	538.5
130	315.00	.70000	240.00	.5048-02	.6054-02	.6054-02	.9000	.2480-03	.2974-03	.2014	1.500	538.3
130	315.00	.80000	242.00	.8869-02	.1064-01	.1064-01	.9000	.4357-03	.5225-03	.3540	2.472	538.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 11

OH84B 60-0 FUSELAGE

(R4UA03)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
153	1.989	7.980	29.95	-2.020	434.7	1307.	95.13	.4526-01	2.017	3815.	.1284-02	.7655-07
154	2.002	7.980	29.95	-2.027	435.4	1303.	94.84	.4533-01	2.021	3810.	.1290-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
153	.3505-01	.2877-01
154	.3506-01	.2869-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
153	.00000	.00000	1.0000	.5808	.7235	.6129	.9735	.2036-01	.2148-01	13.49	71.51	644.2
153	.00000	.50000-02	2.0000	.5409	.6808	.5557	.9870	.1896-01	.1948-01	12.05	78.85	671.0
153	.00000	.10000-01	3.0000	.4651	.5799	.4824	.9818	.1630-01	.1691-01	10.76	69.06	646.7
153	.00000	.20000-01	4.0000	.3239	.3972	.3492	.9608	.1135-01	.1224-01	8.037	43.56	598.8
154	.00000	.30000-01	5.0000	.2364	.2887	.2598	.9502	.8289-02	.9110-02	5.962	32.56	583.3
154	.00000	.40000-01	6.0000	.2101	.2584	.2340	.9434	.7368-02	.8206-02	5.320	29.09	580.6
154	.00000	.50000-01	7.0000	.1771	.2164	.1995	.9383	.6211-02	.6995-02	4.460	29.51	584.6
154	.00000	.60000-01	8.0000	.1802	.2201	.2044	.9346	.6319-02	.7168-02	4.544	28.36	583.6
154	.00000	.70000-01	9.0000	.1524	.1860	.1741	.9309	.5343-02	.6106-02	3.852	26.32	581.7
154	.00000	.80000-01	10.000	.1227	.1495	.1409	.9281	.4303-02	.4940-02	3.125	21.41	576.3
154	.00000	.90000-01	11.000	.1155	.1405	.1329	.9261	.4049-02	.4661-02	2.965	18.62	570.4
154	.00000	.10000+00	12.000	.1053	.1280	.1217	.9242	.3692-02	.4266-02	2.713	16.14	568.0
154	.00000	.12000	13.000	.9185-01	.1115	.1066	.9216	.3221-02	.3738-02	2.378	13.11	564.3
154	.00000	.13000	14.000	.8860-01	.1076	.1030	.9207	.3107-02	.3612-02	2.293	13.30	564.7
154	.00000	.14000	15.000	.8468-01	.1029	.9864-01	.9201	.2969-02	.3459-02	2.184	13.74	567.1
154	.00000	.15000	16.000	.8742-01	.1062	.1019	.9196	.3065-02	.3574-02	2.255	13.79	567.2
154	.00000	.16000	17.000	.8678-01	.1054	.1013	.9180	.3043-02	.3552-02	2.239	13.70	566.7
154	.00000	.17000	18.000	.8462-01	.1029	.9894-01	.9183	.2967-02	.3469-02	2.180	13.71	567.9
154	.00000	.18000	19.000	.8310-01	.1010	.9724-01	.9179	.2914-02	.3410-02	2.144	13.49	566.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 12

OH84B 60-0 FUSELAGE

(R4UA03)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
154	.00000	.20000	21.000	.8087-01	.9822-01	.9484-01	.9166	.2835-02	.3326-02	2.090	13.16	565.5
154	.00000	.25000	23.000	.7310-01	.8884-01	.8616-01	.9145	.2563-02	.3021-02	1.885	11.86	567.4
154	.00000	.30000	24.000	.6800-01	.8264-01	.8014-01	.9145	.2384-02	.2810-02	1.754	11.03	567.2
154	.00000	.35000	25.000	.7008-01	.8519-01	.8261-01	.9145	.2457-02	.2897-02	1.804	11.35	568.3
154	.00000	.40000	26.000	.6860-01	.8346-01	.8092-01	.9145	.2406-02	.2837-02	1.761	11.38	570.7
154	.00000	.45000	1027.0	.6131-01	.7462-01	.7235-01	.9145	.2150-02	.2537-02	1.571	10.45	572.1
154	.00000	.50000	1028.0	.5600-01	.6814-01	.6607-01	.9145	.1963-02	.2317-02	1.435	9.853	571.8
154	.00000	.55000	1029.0	.5599-01	.6823-01	.6614-01	.9145	.1963-02	.2319-02	1.426	10.42	576.3
154	.00000	.60000	1030.0	.5290-01	.6444-01	.6247-01	.9145	.1855-02	.2190-02	1.349	9.858	575.5
154	.00000	.65000	1031.0	.4437-01	.5406-01	.5240-01	.9145	.1556-02	.1837-02	1.131	8.265	575.8
154	.00000	.70000	1032.0	.4430-01	.5384-01	.5222-01	.9145	.1553-02	.1831-02	1.142	8.666	567.7
154	.00000	.75000	1033.0	.4031-01	.4900-01	.4752-01	.9145	.1414-02	.1666-02	1.039	7.624	567.7
154	.00000	.80000	1034.0	.4521-01	.5491-01	.5326-01	.9145	.1585-02	.1867-02	1.168	8.582	565.6
154	.00000	.85000	1035.0	.4319-01	.5244-01	.5143-01	.9092	.1514-02	.1803-02	1.119	8.509	563.9
154	10.000	.10000+00	45.000	.1180	.1434	.1434	.9000	.4137-02	.5029-02	3.037	18.57	568.4
154	14.000	.50000-01	44.000	.1804	.2201	.2201	.9000	.6324-02	.7718-02	4.563	31.18	581.2
154	20.000	.10000+00	207.00	.1687	.2057	.2057	.9000	.5916-02	.7214-02	4.284	24.69	578.5
154	20.000	.15000	211.00	.1029	.1251	.1251	.9000	.3609-02	.4386-02	2.655	16.70	567.1
154	22.000	.50000-01	202.00	.2271	.2772	.2772	.9000	.7962-02	.9720-02	5.733	31.32	582.6
154	24.000	.20000	48.000	.7357-01	.8950-01	.8950-01	.9000	.2580-02	.3138-02	1.889	16.61	570.6
154	24.500	.10000+00	208.00	.1763	.2152	.2152	.9000	.6182-02	.7546-02	4.454	27.82	582.1
154	25.500	.15000	212.00	.1128	.1376	.1376	.9000	.3956-02	.4826-02	2.860	25.03	579.8
154	31.500	.20000	215.00	.8002-01	.9756-01	.9756-01	.9000	.2806-02	.3421-02	2.034	20.25	577.9
154	35.000	.50000-01	203.00	.1793	.2184	.2184	.9000	.6286-02	.7658-02	4.573	28.66	575.3
154	35.000	.20000	216.00	.8601-01	.1049	.1049	.9000	.3016-02	.3677-02	2.183	21.73	578.7
154	39.000	.10000+00	209.00	.1008	.1223	.1223	.9000	.3536-02	.4289-02	2.623	16.55	560.9
154	40.000	.15000	213.00	.1477	.1806	.1806	.9000	.5178-02	.6333-02	3.699	26.87	588.2
154	40.000	.20000	217.00	.8455-01	.1033	.1033	.9000	.2965-02	.3622-02	2.128	23.23	584.8
154	42.500	.50000-01	204.00	.9233-01	.1119	.1119	.9000	.3238-02	.3922-02	2.416	16.21	556.5
154	45.500	.15000	214.00	.8939-01	.1084	.1084	.9000	.3134-02	.3800-02	2.331	13.57	558.9
154	51.000	.20000	218.00	.4839-01	.5855-01	.5855-01	.9000	.1697-02	.2053-02	1.274	8.081	551.6
154	60.000	.50000-01	205.00	.3589-01	.4332-01	.4332-01	.9000	.1258-02	.1519-02	.9554	6.452	543.4
154	67.500	.20000	219.00	.2891-01	.3496-01	.3496-01	.9000	.1014-02	.1226-02	.7625	5.645	550.3
154	96.500	.20000	1220.0	.2278-01	.2753-01	.2753-01	.9000	.7988-03	.9653-03	.6033	4.328	547.4
153	114.00	.40000	388.00	.1844-01	.2225-01	.2225-01	.9000	.6464-03	.7799-03	.4932	3.546	543.6
153	114.00	.50000	390.00	.2579-01	.3112-01	.3112-01	.9000	.9041-03	.1091-02	.6903	4.274	543.2
153	114.00	.70000	394.00	.2762-01	.3331-01	.3331-01	.9000	.9681-03	.1168-02	.7396	4.850	542.7
153	157.50	.40000	223.00	.1873-02	.2255-02	.2255-02	.9000	.6566-04	.7905-04	.5067-01	.3336	534.9
153	157.50	.50000	225.00	.2058-02	.2478-02	.2478-02	.9000	.7214-04	.8686-04	.5562-01	.3660	535.6
153	157.50	.70000	229.00	.2621-02	.3153-02	.3153-02	.9000	.9188-04	.1105-03	.7114-01	.5314	532.4
153	157.50	.80000	231.00	.7731-02	.9303-02	.9303-02	.9000	.2710-03	.3261-03	.2097	1.468	533.0
153	180.00	.40000	182.00	.7799-02	.9398-02	.9398-02	.9000	.2734-03	.3294-03	.2100	1.804	538.6
153	180.00	.50000	184.00	.7863-02	.9474-02	.9474-02	.9000	.2756-03	.3321-03	.2119	1.894	538.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 13

OH84B 60-0 FUSELAGE

(R4UA03)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
153	180.00	.60000	186.00	.5782-02	.6962-02	.6962-02	.9000	.2027-03	.2441-03	.1562	1.398	535.8
153	180.00	.70000	188.00	.8860-02	.1067-01	.1067-01	.9000	.3106-03	.3740-03	.2395	2.143	535.5
153	180.00	.80000	190.00	.5097-02	.6134-02	.6134-02	.9000	.1787-03	.2150-03	.1381	1.345	533.5
153	315.00	.40000	234.00	.1379-02	.1660-02	.1660-02	.9000	.4833-04	.5818-04	.3730-01	.2783	534.9
153	315.00	.50000	236.00	.2170-02	.2613-02	.2613-02	.9000	.7608-04	.9158-04	.5872-01	.3651	534.8
153	315.00	.70000	240.00	.4485-02	.5398-02	.5398-02	.9000	.1572-03	.1892-03	.1215	.9068	534.0
153	315.00	.80000	242.00	.6742-02	.8111-02	.8111-02	.9000	.2363-03	.2843-03	.1829	1.281	532.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 14

OH84B 60-0 FUSELAGE

(R4UA03)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
114	3.016	7.990	29.95	-2.018	673.4	1323.	96.07	.6954-01	3.108	3839.	.1954-02	.7731-07
115	3.006	7.990	29.95	-2.017	672.0	1324.	96.14	.6940-01	3.101	3841.	.1948-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
114	.4360-01	.2335-01
115	.4356-01	.2339-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
114	.00000	.00000	1.0000	.5820	.7269	.6145	.9735	.2538-01	.2679-01	16.84	88.61	659.2
114	.00000	.50000-02	2.0000	.5460	.6904	.5612	.9870	.2380-01	.2447-01	15.05	97.59	690.3
114	.00000	.10000-01	3.0000	.4660	.5826	.4836	.9818	.2032-01	.2108-01	13.43	85.57	661.7
114	.00000	.20000-01	4.0000	.3238	.3969	.3490	.9608	.1412-01	.1522-01	10.14	54.80	604.4
115	.00000	.30000-01	5.0000	.2343	.2859	.2574	.9502	.1021-01	.1121-01	7.481	40.70	590.7
115	.00000	.40000-01	6.0000	.2082	.2537	.2318	.9434	.9070-02	.1010-01	6.698	36.54	585.2
115	.00000	.50000-01	7.0000	.1740	.2123	.1958	.9383	.7578-02	.8529-02	5.558	36.67	590.2
115	.00000	.60000-01	8.0000	.1775	.2165	.2012	.9346	.7730-02	.8763-02	5.678	35.33	589.2
115	.00000	.70000-01	9.0000	.1506	.1836	.1720	.9309	.6560-02	.7490-02	4.830	32.91	587.3
115	.00000	.80000-01	10.000	.1228	.1495	.1409	.9281	.5349-02	.6138-02	3.963	27.06	582.8
115	.00000	.90000-01	11.000	.1156	.1405	.1330	.9261	.5037-02	.5794-02	3.768	23.61	575.6
115	.00000	.10000+00	12.000	.1055	.1281	.1218	.9242	.4597-02	.5306-02	3.452	20.49	572.7
115	.00000	.12000	13.000	.9068-01	.1099	.1051	.9216	.3950-02	.4578-02	2.988	16.45	567.1
115	.00000	.13000	14.000	.8754-01	.1061	.1017	.9207	.3813-02	.4428-02	2.883	16.70	567.7
115	.00000	.14000	15.000	.8340-01	.1012	.9703-01	.9201	.3633-02	.4227-02	2.736	17.18	570.6
115	.00000	.15000	16.000	.8723-01	.1058	.1016	.9196	.3800-02	.4425-02	2.861	17.47	570.7
115	.00000	.16000	17.000	.8575-01	.1040	.9999-01	.9190	.3735-02	.4356-02	2.814	17.18	570.4
115	.00000	.17000	18.000	.8355-01	.1014	.9758-01	.9183	.3639-02	.4250-02	2.736	17.17	571.9
115	.00000	.18000	19.000	.8196-01	.9945-01	.9579-01	.9179	.3570-02	.4173-02	2.687	16.87	571.1

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OH848 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH848 60-0 FUSELAGE

(R4UA03)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
115	.00000	.20000	21.000	.7987-01	.9687-01	.9356-01	.9166	.3479-02	.4076-02	2.624	16.49	569.5
115	.00000	.25000	23.000	.7301-01	.8863-01	.8597-01	.9145	.3180-02	.3745-02	2.388	14.98	572.8
115	.00000	.30000	24.000	.6836-01	.8300-01	.8051-01	.9145	.2978-02	.3507-02	2.235	14.02	573.0
115	.00000	.35000	25.000	.7046-01	.8560-01	.8302-01	.9145	.3069-02	.3616-02	2.298	14.41	574.9
115	.00000	.40000	26.000	.7048-01	.8570-01	.8311-01	.9145	.3070-02	.3620-02	2.288	14.73	578.5
115	.00000	.45000	1027.0	.5997-01	.7296-01	.7074-01	.9145	.2612-02	.3082-02	1.943	12.88	580.0
115	.00000	.50000	1028.0	.6260-01	.7588-01	.7362-01	.9145	.2727-02	.3207-02	2.062	14.19	567.3
115	.00000	.55000	1029.0	.5476-01	.6673-01	.6469-01	.9145	.2385-02	.2818-02	1.760	12.80	585.8
115	.00000	.60000	1030.0	.5276-01	.6428-01	.6231-01	.9145	.2298-02	.2714-02	1.696	12.34	585.5
115	.00000	.65000	1031.0	.4465-01	.5441-01	.5274-01	.9145	.1945-02	.2297-02	1.435	10.44	585.8
115	.00000	.70000	1032.0	.4597-01	.5591-01	.5422-01	.9145	.2003-02	.2362-02	1.491	11.25	579.3
115	.00000	.75000	1033.0	.4417-01	.5371-01	.5209-01	.9145	.1924-02	.2269-02	1.433	10.46	578.8
115	.00000	.80000	1034.0	.5306-01	.6454-01	.6258-01	.9145	.2311-02	.2726-02	1.720	12.55	579.4
115	.00000	.85000	1035.0	.5612-01	.6825-01	.6693-01	.9091	.2445-02	.2915-02	1.821	13.74	578.9
115	10.000	.10000+00	45.000	.1184	.1438	.1438	.9000	.5186-02	.6262-02	3.863	23.55	574.3
115	14.000	.50000-01	44.000	.1780	.2170	.2170	.9000	.7753-02	.9451-02	5.711	38.91	587.0
115	20.000	.10000+00	207.00	.1686	.2055	.2055	.9000	.7344-02	.8951-02	5.414	31.07	586.5
115	20.000	.15000	211.00	.1025	.1243	.1243	.9000	.4463-02	.5416-02	3.355	21.06	572.0
115	22.000	.50000-01	202.00	.2245	.2739	.2739	.9000	.9780-02	.1193-01	7.186	39.13	588.9
115	24.000	.20000	48.000	.7327-01	.8904-01	.8904-01	.9000	.3191-02	.3879-02	2.384	20.90	576.5
115	24.500	.10000+00	208.00	.1758	.2144	.2144	.9000	.7657-02	.9338-02	5.629	35.04	588.5
115	25.500	.15000	212.00	.1106	.1346	.1346	.9000	.4816-02	.5861-02	3.573	31.24	581.8
115	31.500	.20000	215.00	.7955-01	.9694-01	.9694-01	.9000	.3465-02	.4223-02	2.557	25.36	585.7
115	35.000	.50000-01	203.00	.1787	.2172	.2172	.9000	.7783-02	.9460-02	5.809	36.37	577.3
115	35.000	.20000	216.00	.8550-01	.1042	.1042	.9000	.3725-02	.4540-02	2.745	27.21	586.7
115	39.000	.10000+00	209.00	.1020	.1236	.1236	.9000	.4445-02	.5383-02	3.376	21.28	564.1
115	40.000	.15000	213.00	.1477	.1806	.1806	.9000	.6435-02	.7866-02	4.683	33.69	595.9
115	40.000	.20000	217.00	.8255-01	.1009	.1009	.9000	.3596-02	.4394-02	2.620	28.45	595.0
115	42.500	.50000-01	204.00	.9226-01	.1116	.1116	.9000	.4019-02	.4861-02	3.069	20.56	559.9
115	45.500	.15000	214.00	.8949-01	.1082	.1082	.9000	.3898-02	.4715-02	2.978	17.32	559.7
115	51.000	.20000	218.00	.4874-01	.5883-01	.5883-01	.9000	.2123-02	.2563-02	1.638	10.38	552.2
115	60.000	.50000-01	205.00	.3494-01	.4206-01	.4206-01	.9000	.1522-02	.1832-02	1.189	8.033	542.4
115	67.500	.20000	219.00	.2881-01	.3476-01	.3476-01	.9000	.1255-02	.1514-02	.9698	7.177	550.8
115	96.500	.20000	1220.0	.2321-01	.2798-01	.2798-01	.9000	.1011-02	.1219-02	.7849	5.632	547.4
114	114.00	.40000	388.00	.1901-01	.2290-01	.2290-01	.9000	.8288-03	.9985-03	.6450	4.635	544.4
114	114.00	.50000	390.00	.2379-01	.2865-01	.2865-01	.9000	.1037-02	.1249-02	.8084	5.005	543.3
114	114.00	.70000	394.00	.6287-01	.7597-01	.7597-01	.9000	.2741-02	.3312-02	2.102	13.69	555.8
114	157.50	.40000	223.00	.2235-02	.2686-02	.2686-02	.9000	.9746-04	.1171-03	.7684-01	.5060	534.2
114	157.50	.50000	225.00	.3845-02	.4624-02	.4624-02	.9000	.1676-03	.2016-03	.1317	.8659	537.2
114	157.50	.70000	229.00	.3445-02	.4137-02	.4137-02	.9000	.1502-03	.1804-03	.1187	.8868	532.3
114	157.50	.80000	231.00	.1044-01	.1254-01	.1254-01	.9000	.4551-03	.5467-03	.3593	2.515	533.1
114	180.00	.40000	182.00	.9229-02	.1110-01	.1110-01	.9000	.4024-03	.4840-03	.3156	2.712	538.4
114	180.00	.50000	184.00	.7390-02	.8885-02	.8885-02	.9000	.3222-03	.3874-03	.2532	2.264	536.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 18

OH84B 60-0 FUSELAGE

(R4UA03)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
114	180.00	.60000	186.00	.6710-02	.8067-02	.8067-02	.9000	.2926-03	.3517-03	.2302	2.060	535.9
114	180.00	.70000	188.00	.7537-02	.9058-02	.9058-02	.9000	.3286-03	.3949-03	.2588	2.317	535.1
114	180.00	.80000	190.00	.5661-02	.6802-02	.6802-02	.9000	.2468-03	.2965-03	.1947	1.896	533.9
114	315.00	.40000	234.00	.1292-02	.1552-02	.1552-02	.9000	.5631-04	.6766-04	.4441-01	.3315	533.9
114	315.00	.50000	236.00	.2049-02	.2461-02	.2461-02	.9000	.8931-04	.1073-03	.7049-01	.4386	533.4
114	315.00	.70000	240.00	.4642-02	.5576-02	.5576-02	.9000	.2024-03	.2431-03	.1598	1.193	533.2
114	315.00	.80000	242.00	.1012-01	.1215-01	.1215-01	.9000	.4411-03	.5299-03	.3482	2.437	533.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 17

OH84B 60-0 FUSELAGE

(R4UA03)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
127	3.689	8.000	29.95	-2.010	854.0	1352.	97.95	.8748-01	3.919	3881.	.2411-02	.7882-07
128	3.686	8.000	29.95	-2.016	854.2	1353.	98.02	.8750-01	3.920	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
127	.4915-01	.2107-01
128	.4916-01	.2108-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
127	.00000	.00000	1.0000	.5808	.7298	.6140	.9735	.2854-01	.3018-01	18.90	98.05	689.5
127	.00000	.50000-02	2.0000	.5460	.6963	.5618	.9870	.2683-01	.2761-01	16.80	107.2	725.5
127	.00000	.10000-01	3.0000	.4666	.5872	.4847	.9819	.2293-01	.2382-01	15.10	94.78	693.3
127	.00000	.20000-01	4.0000	.3266	.4014	.3524	.9608	.1605-01	.1732-01	11.64	62.23	626.5
128	.00000	.30000-01	5.0000	.2370	.2889	.2603	.9502	.1165-01	.1279-01	8.764	47.46	600.4
128	.00000	.40000-01	6.0000	.2077	.2528	.2310	.9433	.1021-01	.1136-01	7.749	42.10	593.8
128	.00000	.50000-01	7.0000	.1750	.2134	.1969	.9382	.8605-02	.9680-02	6.473	42.49	600.5
128	.00000	.60000-01	8.0000	.1792	.2184	.2030	.9346	.8808-02	.9981-02	6.631	41.05	599.8
128	.00000	.70000-01	9.0000	.1519	.1851	.1734	.9309	.7467-02	.8522-02	5.636	38.20	597.9
128	.00000	.80000-01	10.000	.1232	.1499	.1413	.9281	.6058-02	.6948-02	4.603	31.28	592.8
128	.00000	.90000-01	11.000	.1162	.1411	.1336	.9261	.5714-02	.6568-02	4.389	27.38	584.5
128	.00000	.10000+00	12.000	.1067	.1293	.1230	.9242	.5243-02	.6047-02	4.045	23.91	581.1
128	.00000	.12000	13.000	.9112-01	.1103	.1055	.9216	.4479-02	.5187-02	3.484	19.11	574.9
128	.00000	.13000	14.000	.8781-01	.1063	.1019	.9207	.4316-02	.5008-02	3.354	19.35	575.8
128	.00000	.14000	15.000	.8442-01	.1023	.9815-01	.9200	.4150-02	.4825-02	3.210	20.07	579.2
128	.00000	.15000	16.000	.8708-01	.1055	.1013	.9196	.4281-02	.4981-02	3.310	20.13	579.4
128	.00000	.16000	17.000	.8667-01	.1050	.1010	.9190	.4260-02	.4964-02	3.296	20.04	579.1
128	.00000	.17000	18.000	.8463-01	.1026	.9877-01	.9183	.4160-02	.4855-02	3.210	20.06	581.0
128	.00000	.18000	19.000	.8267-01	.1002	.9655-01	.9179	.4064-02	.4746-02	3.138	19.62	580.4

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OH4B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH4B 60-0 FUSELAGE

(R4UA03)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
128	.00000	.20000	21.000	.8118-01	.9837-01	.9503-01	.9166	.3991-02	.4671-02	3.089	19.33	578.5
128	.00000	.25000	23.000	.7191-01	.8721-01	.8461-01	.9144	.3535-02	.4159-02	2.726	17.03	581.6
128	.00000	.30000	24.000	.6886-01	.8351-01	.8102-01	.9144	.3385-02	.3983-02	2.608	16.29	582.0
128	.00000	.35000	25.000	.7038-01	.8542-01	.8286-01	.9144	.3460-02	.4073-02	2.658	16.58	584.5
128	.00000	.40000	26.000	.6929-01	.8421-01	.8167-01	.9144	.3406-02	.4015-02	2.602	16.67	588.8
128	.00000	.45000	1027.0	.6093-01	.7411-01	.7186-01	.9144	.2995-02	.3533-02	2.279	15.02	591.9
128	.00000	.50000	1028.0	.6028-01	.7297-01	.7081-01	.9144	.2963-02	.3481-02	2.305	15.80	574.9
128	.00000	.55000	1029.0	.5571-01	.6791-01	.6583-01	.9144	.2739-02	.3236-02	2.062	14.90	599.6
128	.00000	.60000	1030.0	.5563-01	.6781-01	.6573-01	.9144	.2735-02	.3231-02	2.060	14.88	599.5
128	.00000	.65000	1031.0	.4831-01	.5891-01	.5710-01	.9144	.2375-02	.2807-02	1.786	12.89	600.8
128	.00000	.70000	1032.0	.5258-01	.6403-01	.6208-01	.9144	.2585-02	.3051-02	1.956	14.65	595.8
128	.00000	.75000	1033.0	.5524-01	.6729-01	.6523-01	.9144	.2716-02	.3207-02	2.052	14.84	597.1
128	.00000	.80000	1034.0	.7120-01	.8676-01	.8411-01	.9144	.3500-02	.4135-02	2.640	19.08	598.5
128	.00000	.85000	1035.0	.7988-01	.9738-01	.9547-01	.9091	.3927-02	.4693-02	2.957	22.10	599.6
128	10.000	.10000+00	45.000	.1196	.1451	.1451	.9000	.5880-02	.7134-02	4.526	27.47	582.9
128	14.000	.50000-01	44.000	.1781	.2169	.2169	.9000	.8754-02	.1066-01	6.613	44.83	597.3
128	20.000	.10000+00	207.00	.1685	.2051	.2051	.9000	.8283-02	.1008-01	6.280	35.91	594.4
128	20.000	.15000	211.00	.1029	.1248	.1248	.9000	.5061-02	.6135-02	3.909	24.44	580.2
128	22.000	.50000-01	202.00	.2265	.2761	.2761	.9000	.1113-01	.1357-01	8.387	45.44	599.4
128	24.000	.20000	48.000	.7280-01	.8841-01	.8841-01	.9000	.3579-02	.4346-02	2.742	23.93	586.4
128	24.500	.10000+00	208.00	.1779	.2168	.2168	.9000	.8745-02	.1066-01	6.591	40.82	599.1
128	25.500	.15000	212.00	.1093	.1331	.1331	.9000	.5373-02	.6543-02	4.064	35.28	596.4
128	31.500	.20000	215.00	.7936-01	.9665-01	.9665-01	.9000	.3901-02	.4751-02	2.949	29.09	596.6
128	35.000	.50000-01	203.00	.1791	.2177	.2177	.9000	.8804-02	.1070-01	6.721	41.83	589.3
128	35.000	.20000	216.00	.8555-01	.1042	.1042	.9000	.4206-02	.5123-02	3.175	31.31	597.7
128	39.000	.10000+00	209.00	.1034	.1250	.1250	.9000	.5084-02	.6147-02	3.979	25.00	570.1
128	40.000	.15000	213.00	.1485	.1815	.1815	.9000	.7302-02	.8922-02	5.441	39.15	607.6
128	40.000	.20000	217.00	.8424-01	.1028	.1028	.9000	.4141-02	.5053-02	3.102	33.54	603.6
128	42.500	.50000-01	204.00	.9260-01	.1118	.1118	.9000	.4552-02	.5497-02	3.583	23.93	565.5
128	45.500	.15000	214.00	.9091-01	.1098	.1098	.9000	.4469-02	.5396-02	3.520	20.42	565.1
128	51.000	.20000	218.00	.4960-01	.5975-01	.5975-01	.9000	.2438-02	.2937-02	1.941	12.28	556.4
128	60.000	.50000-01	205.00	.3542-01	.4254-01	.4254-01	.9000	.1741-02	.2091-02	1.407	9.495	544.6
128	67.500	.20000	219.00	.2907-01	.3500-01	.3500-01	.9000	.1429-02	.1721-02	1.141	8.425	554.5
128	96.500	.20000	1220.0	.2322-01	.2794-01	.2794-01	.9000	.1141-02	.1373-02	.9143	6.545	551.7
127	114.00	.40000	388.00	.1862-01	.2240-01	.2240-01	.9000	.9150-03	.1101-02	.7321	5.242	551.6
127	114.00	.50000	390.00	.2456-01	.2955-01	.2955-01	.9000	.1207-02	.1452-02	.9671	5.965	550.5
127	114.00	.70000	394.00	.6387-01	.7713-01	.7713-01	.9000	.3139-02	.3791-02	2.466	15.99	565.8
127	157.50	.40000	223.00	.2542-02	.3049-02	.3049-02	.9000	.1249-03	.1499-03	.1016	.6673	538.8
127	157.50	.50000	225.00	.6160-02	.7390-02	.7390-02	.9000	.3027-03	.3632-03	.2458	1.614	539.7
127	157.50	.70000	229.00	.5199-02	.6234-02	.6234-02	.9000	.2555-03	.3064-03	.2080	1.550	537.6
127	157.50	.80000	231.00	.1305-01	.1565-01	.1565-01	.9000	.6412-03	.7692-03	.5206	3.632	539.7
127	180.00	.40000	182.00	.9302-02	.1117-01	.1117-01	.9000	.4572-03	.5490-03	.3694	3.166	543.6
127	180.00	.50000	184.00	.6865-02	.8240-02	.8240-02	.9000	.3374-03	.4050-03	.2733	2.438	541.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 19

OH84B 60-0 FUSELAGE

(R4UA03)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
127	180.00	.60000	186.00	.6204-02	.7444-02	.7444-02	.9000	.3049-03	.3659-03	.2473	2.208	540.6
127	180.00	.70000	188.00	.5263-02	.6315-02	.6315-02	.9000	.2587-03	.3103-03	.2099	1.875	540.0
127	180.00	.80000	190.00	.5389-02	.6464-02	.6464-02	.9000	.2649-03	.3177-03	.2154	2.092	538.5
127	315.00	.40000	234.00	.1362-02	.1634-02	.1634-02	.9000	.6696-04	.8031-04	.5446-01	.4055	538.4
127	315.00	.50000	236.00	.2477-02	.2971-02	.2971-02	.9000	.1217-03	.1460-03	.9898-01	.6143	538.5
127	315.00	.70000	240.00	.4650-02	.5576-02	.5576-02	.9000	.2285-03	.2741-03	.1859	1.384	538.3
127	315.00	.80000	242.00	.1055-01	.1266-01	.1266-01	.9000	.5186-03	.6221-03	.4213	2.940	539.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA04)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
150	X10 6 1.973	7.980	29.94	-1.005	435.5	1316.	95.78	.4534-01	2.021	3829.	.1278-02	.7708-07
151	1.981	7.980	29.94	-1.004	435.3	1312.	95.49	.4532-01	2.020	3823.	.1281-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
150	.3513-01	.2886-01
151	.3510-01	.2882-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
150	.00000	.00000	1.0000	.5849	.7243	.6163	.9735	.2055-01	.2165-01	14.04	74.87	632.2
150	.00000	.50000-02	2.0000	.5485	.6856	.5631	.9870	.1927-01	.1978-01	12.67	83.45	657.8
150	.00000	.10000-01	3.0000	.4684	.5806	.4855	.9818	.1646-01	.1705-01	11.21	72.36	634.6
150	.00000	.20000-01	4.0000	.3206	.3916	.3452	.9607	.1126-01	.1212-01	8.177	44.52	589.6
151	.00000	.30000-01	5.0000	.2343	.2854	.2572	.9502	.8226-02	.9030-02	6.034	33.04	578.2
151	.00000	.40000-01	6.0000	.2112	.2571	.2350	.9433	.7415-02	.8248-02	5.456	29.90	575.9
151	.00000	.50000-01	7.0000	.1775	.2163	.1996	.9382	.6231-02	.7007-02	4.561	30.25	579.6
151	.00000	.60000-01	8.0000	.1804	.2197	.2043	.9346	.6331-02	.7171-02	4.640	29.02	578.8
151	.00000	.70000-01	9.0000	.1527	.1859	.1742	.9309	.5361-02	.6116-02	3.938	26.96	577.1
151	.00000	.80000-01	10.000	.1238	.1505	.1419	.9281	.4345-02	.4981-02	3.214	22.06	572.1
151	.00000	.90000-01	11.000	.1153	.1399	.1325	.9261	.4047-02	.4652-02	3.016	18.9C	566.4
151	.00000	.10000+00	12.000	.1043	.1265	.1203	.9242	.3662-02	.4224-02	2.737	16.31	564.3
151	.00000	.12000	13.000	.9190-01	.1114	.1065	.9216	.3226-02	.3738-02	2.422	13.38	560.8
151	.00000	.13000	14.000	.8888-01	.1077	.1032	.9207	.3120-02	.3622-02	2.342	13.61	561.1
151	.00000	.14000	15.000	.8513-01	.1032	.9901-01	.9200	.2988-02	.3475-02	2.236	14.09	563.5
151	.00000	.15000	16.000	.8777-01	.1064	.1022	.9196	.3081-02	.3586-02	2.305	14.13	563.5
151	.00000	.16000	17.000	.8657-01	.1050	.1009	.9190	.3039-02	.3541-02	2.275	13.94	563.0
151	.00000	.17000	18.000	.8512-01	.1032	.9937-01	.9183	.2988-02	.3488-02	2.233	14.07	564.3
151	.00000	.18000	19.000	.8262-01	.1002	.9652-01	.9179	.2900-02	.3388-02	2.170	13.68	563.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA04)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
151	.00000	.20000	21.000	.8118-01	.9840-01	.9505-01	.9166	.2850-02	.3337-02	2.137	13.48	561.9
151	.00000	.25000	23.000	.7224-01	.8761-01	.8500-01	.9144	.2536-02	.2984-02	1.896	11.95	563.9
151	.00000	.30000	24.000	.6781-01	.8223-01	.7978-01	.9144	.2380-02	.2800-02	1.780	11.22	563.8
151	.00000	.35000	25.000	.6949-01	.8430-01	.8179-01	.9144	.2439-02	.2871-02	1.822	11.47	564.9
151	.00000	.40000	26.000	.6681-01	.8110-01	.7867-01	.9144	.2345-02	.2761-02	1.745	11.30	567.5
151	.00000	.45000	1027.0	.5989-01	.7273-01	.7055-01	.9144	.2102-02	.2476-02	1.561	10.41	569.0
151	.00000	.50000	1028.0	.5420-01	.6583-01	.6385-01	.9144	.1903-02	.2241-02	1.413	9.719	568.8
151	.00000	.55000	1029.0	.5570-01	.6772-01	.6568-01	.9144	.1955-02	.2305-02	1.444	10.57	572.9
151	.00000	.60000	1030.0	.5144-01	.6253-01	.6064-01	.9144	.1805-02	.2128-02	1.335	9.777	572.1
151	.00000	.65000	1031.0	.4450-01	.5409-01	.5246-01	.9144	.1562-02	.1841-02	1.155	8.453	572.4
151	.00000	.70000	1032.0	.4368-01	.5299-01	.5141-01	.9144	.1533-02	.1804-02	1.146	8.711	564.5
151	.00000	.75000	1033.0	.4055-01	.4919-01	.4772-01	.9144	.1423-02	.1675-02	1.063	7.808	565.0
151	.00000	.80000	1034.0	.4556-01	.5524-01	.5360-01	.9144	.1599-02	.1881-02	1.197	8.806	563.0
151	.00000	.85000	1035.0	.4335-01	.5253-01	.5154-01	.9091	.1522-02	.1809-02	1.141	8.689	561.7
151	10.000	.10000+00	45.000	.1165	.1413	.1413	.9000	.4088-02	.4960-02	3.052	18.68	565.3
151	14.000	.50000-01	44.000	.1774	.2159	.2159	.9000	.6226-02	.7579-02	4.577	31.35	576.6
151	20.000	.10000+00	207.00	.1647	.2003	.2003	.9000	.5780-02	.7030-02	4.262	24.61	574.3
151	20.000	.15000	211.00	.1004	.1217	.1217	.9000	.3523-02	.4272-02	2.637	16.63	563.1
151	22.000	.50000-01	202.00	.2217	.2700	.2700	.9000	.7784-02	.9478-02	5.712	31.28	577.9
151	24.000	.20000	48.000	.7199-01	.8736-01	.8736-01	.9000	.2527-02	.3067-02	1.884	16.60	566.1
151	24.500	.10000+00	208.00	.1736	.2114	.2114	.9000	.6095-02	.7420-02	4.476	28.02	577.3
151	25.500	.15000	212.00	.1066	.1296	.1296	.9000	.3741-02	.4548-02	2.766	24.31	572.2
151	31.500	.20000	215.00	.7712-01	.9377-01	.9377-01	.9000	.2707-02	.3291-02	2.001	19.97	572.7
151	35.000	.50000-01	203.00	.1720	.2090	.2090	.9000	.6039-02	.7337-02	4.477	28.13	570.3
151	35.000	.20000	216.00	.8329-01	.1013	.1013	.9000	.2924-02	.3555-02	2.159	21.55	573.2
151	39.000	.10000+00	209.00	.9524-01	.1153	.1153	.9000	.3343-02	.4046-02	2.525	15.97	556.4
151	40.000	.15000	213.00	.1437	.1752	.1752	.9000	.5043-02	.6148-02	3.680	26.82	581.9
151	40.000	.20000	217.00	.8145-01	.9920-01	.9920-01	.9000	.2859-02	.3482-02	2.096	22.95	578.5
151	42.500	.50000-01	204.00	.8707-01	.1053	.1053	.9000	.3056-02	.3695-02	2.319	15.58	553.0
151	45.500	.15000	214.00	.8344-01	.1009	.1009	.9000	.2929-02	.3542-02	2.219	12.95	553.9
151	51.000	.20000	218.00	.4522-01	.5460-01	.5460-01	.9000	.1587-02	.1917-02	1.211	7.691	548.6
151	60.000	.50000-01	205.00	.3400-01	.4098-01	.4098-01	.9000	.1193-02	.1438-02	.9192	6.214	541.4
151	67.500	.20000	219.00	.2686-01	.3241-01	.3241-01	.9000	.9427-03	.1138-02	.7213	5.350	546.5
151	96.500	.20000	1220.0	.2139-01	.2580-01	.2580-01	.9000	.7508-03	.9056-03	.5762	4.141	544.2
150	114.00	.40000	388.00	.1803-01	.2173-01	.2173-01	.9000	.6333-03	.7632-03	.4896	3.521	542.6
150	114.00	.58000	390.00	.2684-01	.3234-01	.3234-01	.9000	.9427-03	.1136-02	.7288	4.513	542.6
150	114.00	.70000	394.00	.1681-01	.2024-01	.2024-01	.9000	.5904-03	.7109-03	.4583	3.010	539.4
150	157.50	.40000	223.00	.2328-02	.2800-02	.2800-02	.9000	.8177-04	.9835-04	.6379-01	.4198	535.5
150	157.50	.50000	225.00	.2322-02	.2793-02	.2793-02	.9000	.8157-04	.9812-04	.6363-01	.4187	535.7
150	157.50	.70000	229.00	.2840-02	.3414-02	.3414-02	.9000	.9975-04	.1199-03	.7804-01	.5827	533.3
150	157.50	.80000	231.00	.7454-02	.8961-02	.8961-02	.9000	.2619-03	.3148-03	.2049	1.434	533.2
150	180.00	.40000	182.00	.8020-02	.9655-02	.9655-02	.9000	.2817-03	.3392-03	.2188	1.879	539.1
150	180.00	.50000	184.00	.7919-02	.9534-02	.9534-02	.9000	.2782-03	.3349-03	.2162	1.932	538.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA04)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/T	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
150	180.00	.60000	186.00	.5418-02	.6518-02	.6518-02	.9000	.1903-03	.2290-03	.1483	1.327	536.3
150	180.00	.70000	188.00	.7118-02	.8564-02	.8564-02	.9000	.2500-03	.3008-03	.1948	1.742	536.7
150	180.00	.80000	190.00	.3087-02	.3711-02	.3711-02	.9000	.1084-03	.1304-03	.8476-01	.8252	534.0
150	315.00	.40000	234.00	.1292-02	.1553-02	.1553-02	.9000	.4537-04	.5457-04	.3542-01	.2643	534.6
150	315.00	.50000	236.00	.2068-02	.2487-02	.2487-02	.9000	.7265-04	.8737-04	.5673-01	.3527	534.9
150	315.00	.70000	240.00	.3668-02	.4410-02	.4410-02	.9000	.1288-03	.1549-03	.1007	.7518	533.9
150	315.00	.80000	242.00	.4094-02	.4921-02	.4921-02	.9000	.1438-03	.1728-03	.1126	.7884	532.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 23

OH84B 60-0 FUSELAGE

(R4UA04)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
111	2.999	7.990	29.94	-.9974	671.3	1325.	96.21	.6932-01	3.098	3842.	.1945-02	.7742-07
112	2.995	7.990	29.94	-1.000	673.3	1329.	96.50	.6953-01	3.107	3848.	.1945-02	.7766-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
111	.4354-01	.2341-01
112	.4363-01	.2342-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
111	.00000	.00000	1.0000	.5855	.7299	.6179	.9735	.2550-01	.2690-01	17.07	90.03	655.1
111	.00000	.50000-02	2.0000	.5491	.6927	.5644	.9870	.2391-01	.2457-01	15.29	99.34	685.3
111	.00000	.10000-01	3.0000	.4670	.5828	.4845	.9818	.2033-01	.2110-01	13.56	86.54	658.0
111	.00000	.20000-01	4.0000	.3225	.3949	.3475	.9607	.1404-01	.1513-01	10.14	54.84	602.6
112	.00000	.30000-01	5.0000	.2347	.2859	.2577	.9502	.1024-01	.1124-01	7.592	41.38	587.2
112	.00000	.40000-01	6.0000	.2090	.2542	.2324	.9433	.9118-02	.1014-01	6.808	37.20	582.0
112	.00000	.50000-01	7.0000	.1746	.2127	.1963	.9382	.7618-02	.8566-02	5.649	37.32	587.2
112	.00000	.60000-01	8.0000	.1782	.2171	.2019	.9346	.7776-02	.8808-02	5.773	35.98	586.3
112	.00000	.70000-01	9.0000	.1508	.1835	.1720	.9309	.6578-02	.7505-02	4.895	33.39	584.6
112	.00000	.80000-01	10.0000	.1235	.1501	.1416	.9280	.5387-02	.6176-02	4.032	27.57	580.2
112	.00000	.90000-01	11.0000	.1149	.1395	.1321	.9261	.5015-02	.5764-02	3.789	23.77	573.2
112	.00000	.10000+00	12.0000	.1048	.1271	.1209	.9241	.4573-02	.5274-02	3.468	20.61	570.4
112	.00000	.12000	13.0000	.8948-01	.1083	.1036	.9215	.3904-02	.4521-02	2.981	16.43	565.0
112	.00000	.13000	14.0000	.8666-01	.1049	.1005	.9207	.3781-02	.4387-02	2.885	16.73	565.5
112	.00000	.14000	15.0000	.8353-01	.1012	.9710-01	.9200	.3644-02	.4237-02	2.770	17.41	568.6
112	.00000	.15000	16.0000	.8638-01	.1047	.1005	.9196	.3769-02	.4385-02	2.864	17.50	568.8
112	.00000	.16000	17.0000	.8493-01	.1029	.9895-01	.9189	.3705-02	.4317-02	2.816	17.22	568.6
112	.00000	.17000	18.0000	.8327-01	.1010	.9718-01	.9183	.3633-02	.4240-02	2.756	17.31	570.2
112	.00000	.18000	19.0000	.8144-01	.9872-01	.9511-01	.9179	.3553-02	.4150-02	2.698	16.96	569.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 24

OH84B 60-0 FUSELAGE

(R4UA04)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW-TO TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TH DEG. R
112	.00000	.20000	21.000	.7930-01	.9609-01	.9283-01	.9166	.3460-02	.4050-02	2.632	16.55	568.0
112	.00000	.25000	23.000	.7171-01	.8698-01	.8439-01	.9144	.3129-02	.3682-02	2.369	14.87	571.5
112	.00000	.30000	24.000	.6687-01	.8110-01	.7869-01	.9144	.2917-02	.3433-02	2.208	13.86	571.7
112	.00000	.35000	25.000	.6851-01	.8313-01	.8065-01	.9144	.2989-02	.3519-02	2.257	14.15	573.6
112	.00000	.40000	26.000	.6707-01	.8148-01	.7903-01	.9144	.2926-02	.3448-02	2.198	14.16	577.5
112	.00000	.45000	1027.0	.5898-01	.7168-01	.6952-01	.9144	.2573-02	.3033-02	1.929	12.80	578.9
112	.00000	.50000	1028.0	.5984-01	.7248-01	.7034-01	.9144	.2611-02	.3069-02	1.990	13.70	566.5
112	.00000	.55000	1029.0	.5261-01	.6404-01	.6210-01	.9144	.2295-02	.2709-02	1.708	12.43	584.5
112	.00000	.60000	1030.0	.5021-01	.6113-01	.5927-01	.9144	.2191-02	.2586-02	1.631	11.87	584.4
112	.00000	.65000	1031.0	.4347-01	.5291-01	.5131-01	.9144	.1896-02	.2238-02	1.411	10.27	584.6
112	.00000	.70000	1032.0	.4484-01	.5448-01	.5284-01	.9144	.1956-02	.2306-02	1.468	11.09	578.1
112	.00000	.75000	1033.0	.4302-01	.5227-01	.5070-01	.9144	.1877-02	.2212-02	1.410	10.29	577.7
112	.00000	.80000	1034.0	.5162-01	.6272-01	.6084-01	.9144	.2252-02	.2654-02	1.690	12.33	578.4
112	.00000	.85000	1035.0	.5473-01	.6650-01	.6522-01	.9091	.2388-02	.2846-02	1.793	13.54	577.8
112	10.000	.10000+00	45.000	.1170	.1419	.1419	.9000	.5105-02	.6192-02	3.864	23.58	571.8
112	14.000	.50000-01	44.000	.1762	.2144	.2144	.9000	.7687-02	.9356-02	5.726	39.08	583.8
112	20.000	.10000+00	207.00	.1650	.2007	.2007	.9000	.7197-02	.8758-02	5.365	30.84	583.2
112	20.000	.15000	211.00	.1008	.1222	.1222	.9000	.4398-02	.5330-02	3.340	21.00	569.1
112	22.000	.50000-01	202.00	.2213	.2694	.2694	.9000	.9654-02	.1176-01	7.177	39.16	585.3
112	24.000	.20000	48.000	.7139-01	.8663-01	.8663-01	.9000	.3115-02	.3780-02	2.352	20.65	573.6
112	24.500	.10000+00	208.00	.1733	.2110	.2110	.9000	.7562-02	.9205-02	5.628	35.10	584.4
112	25.500	.15000	212.00	.1018	.1238	.1238	.9000	.4442-02	.5401-02	3.322	29.06	580.7
112	31.500	.20000	215.00	.7716-01	.9386-01	.9386-01	.9000	.3367-02	.4095-02	2.514	24.98	581.8
112	35.000	.50000-01	203.00	.1725	.2094	.2094	.9000	.7528-02	.9135-02	5.688	35.68	573.2
112	35.000	.20000	216.00	.8300-01	.1010	.1010	.9000	.3621-02	.4406-02	2.702	26.84	582.5
112	39.000	.10000+00	209.00	.9598-01	.1160	.1160	.9000	.4188-02	.5063-02	3.219	20.32	560.0
112	40.000	.15000	213.00	.1423	.1736	.1736	.9000	.6210-02	.7573-02	4.584	33.26	590.5
112	40.000	.20000	217.00	.8060-01	.9829-01	.9829-01	.9000	.3517-02	.4289-02	2.596	28.25	590.5
112	42.500	.50000-01	204.00	.8732-01	.1055	.1055	.9000	.3810-02	.4602-02	2.940	19.72	556.9
112	45.500	.15000	214.00	.8348-01	.1008	.1008	.9000	.3642-02	.4398-02	2.816	16.41	555.6
112	51.000	.20000	218.00	.4456-01	.5372-01	.5372-01	.9000	.1944-02	.2344-02	1.515	9.620	549.2
112	60.000	.50000-01	205.00	.3313-01	.3985-01	.3985-01	.9000	.1446-02	.1739-02	1.139	7.699	541.0
112	67.500	.20000	219.00	.2678-01	.3227-01	.3227-01	.9000	.1168-02	.1408-02	.9117	6.756	548.3
112	96.500	.20000	1220.0	.2114-01	.2546-01	.2546-01	.9000	.9222-03	.1111-02	.7224	5.188	545.4
111	114.00	.40000	388.00	.1781-01	.2145-01	.2145-01	.9000	.7756-03	.9341-03	.6052	4.349	544.3
111	114.00	.50000	390.00	.2354-01	.2835-01	.2835-01	.9000	.1025-02	.1235-02	.8007	4.956	543.6
111	114.00	.70000	394.00	.3365-01	.4055-01	.4055-01	.9000	.1465-02	.1766-02	1.141	7.465	546.3
111	157.50	.40000	223.00	.2769-02	.3327-02	.3327-02	.9000	.1206-03	.1449-03	.9518-01	.6265	535.2
111	157.50	.50000	225.00	.3372-02	.4054-02	.4054-02	.9000	.1468-03	.1765-03	.1156	.7605	537.0
111	157.50	.70000	229.00	.2088-02	.2507-02	.2507-02	.9000	.9093-04	.1092-03	.7205-01	.5383	532.3
111	157.50	.80000	231.00	.9513-02	.1143-01	.1143-01	.9000	.4142-03	.4975-03	.3279	2.295	533.2
111	180.00	.40000	182.00	.8995-02	.1082-01	.1082-01	.9000	.3916-03	.4711-03	.3077	2.643	539.0
111	180.00	.50000	184.00	.8096-02	.9735-02	.9735-02	.9000	.3525-03	.4239-03	.2773	2.479	538.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 25

OH84B 60-0 FUSELAGE

(R4UA04)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
111	180.00	.60000	186.00	.6127-02	.7366-02	.7366-02	.9000	.2668-03	.3207-03	.2101	1.879	537.0
111	180.00	.70000	188.00	.6163-02	.7407-02	.7407-02	.9000	.2683-03	.3225-03	.2118	1.893	536.2
111	180.00	.80000	190.00	.4410-02	.5297-02	.5297-02	.9000	.1920-03	.2307-03	.1519	1.479	533.8
111	315.00	.40000	234.00	.1222-02	.1468-02	.1468-02	.9000	.5321-04	.6392-04	.4205-01	.3138	534.4
111	315.00	.50000	236.00	.2231-02	.2680-02	.2680-02	.9000	.9713-04	.1167-03	.7678-01	.4775	534.2
111	315.00	.70000	240.00	.4043-02	.4856-02	.4856-02	.9000	.1760-03	.2115-03	.1393	1.040	533.6
111	315.00	.80000	242.00	.6949-02	.8347-02	.8347-02	.9000	.3026-03	.3634-03	.2394	1.675	533.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 26

OH84B 60-0 FUSELAGE

(R4UA04)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
123	3.686	8.000	29.95	-.9857	853.2	1352.	97.95	.8740-01	3.915	3881.	.2408-02	.7882-07
125	3.687	8.000	29.96	-.9824	854.5	1353.	98.02	.8753-01	3.921	3883.	.2410-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
123	.4912-01	.2108-01
125	.4917-01	.2107-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAH/TO	H(TO) BTU/R FT2SEC	H(TAH) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TH DEG. R
123	.00000	.00000	1.0000	.5795	.7278	.6126	.9735	.2847-01	.3009-01	18.89	98.07	688.1
123	.00000	.50000-02	2.0000	.5410	.6893	.5565	.9870	.2657-01	.2734-01	16.69	106.6	723.4
123	.00000	.10000-01	3.0000	.4652	.5849	.4831	.9818	.2285-01	.2373-01	15.09	94.82	691.3
123	.00000	.20000-01	4.0000	.3249	.3990	.3504	.9608	.1596-01	.1721-01	11.61	62.15	624.1
125	.00000	.30000-01	5.0000	.2363	.2879	.2594	.9502	.1162-01	.1276-01	8.763	47.50	598.4
125	.00000	.40000-01	6.0000	.2077	.2526	.2309	.9434	.1021-01	.1135-01	7.766	42.23	592.1
125	.00000	.50000-01	7.0000	.1750	.2132	.1968	.9383	.8603-02	.9674-02	6.487	42.62	598.6
125	.00000	.60000-01	8.0000	.1786	.2177	.2024	.9346	.8783-02	.9950-02	6.630	41.08	597.8
125	.00000	.70000-01	9.0000	.1509	.1837	.1721	.9309	.7417-02	.8462-02	5.613	38.08	596.0
125	.00000	.80000-01	10.000	.1227	.1492	.1407	.9281	.6034-02	.6918-02	4.595	31.24	591.2
125	.00000	.90000-01	11.000	.1158	.1405	.1331	.9261	.5694-02	.6544-02	4.383	27.36	583.0
125	.00000	.10000+00	12.000	.1056	.1279	.1217	.9242	.5190-02	.5983-02	4.011	23.73	579.7
125	.00000	.12000	13.000	.9093-01	.1100	.1053	.9216	.4471-02	.5176-02	3.484	19.12	573.5
125	.00000	.13000	14.000	.8688-01	.1052	.1008	.9207	.4272-02	.4954-02	3.325	19.20	574.2
125	.00000	.14000	15.000	.8408-01	.1019	.9771-01	.9201	.4134-02	.4804-02	3.204	20.05	577.7
125	.00000	.15000	16.000	.8727-01	.1057	.1015	.9196	.4291-02	.4991-02	3.325	20.23	577.8
125	.00000	.16000	17.000	.8616-01	.1044	.1003	.9190	.4236-02	.4934-02	3.283	19.98	577.6
125	.00000	.17000	18.000	.8442-01	.1023	.9849-01	.9183	.4151-02	.4842-02	3.210	20.07	579.3
125	.00000	.18000	19.000	.8283-01	.1004	.9670-01	.9179	.4072-02	.4755-02	3.152	19.72	578.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 27

OH84B 60-0 FUSELAGE

(R4UA04)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
125	.00000	.20000	21.000	.8027-01	.9721-01	.9392-01	.9166	.3947-02	.4618-02	3.063	19.18	576.5
125	.00000	.25000	23.000	.7158-01	.8675-01	.8417-01	.9145	.3519-02	.4138-02	2.723	17.03	579.1
125	.00000	.30000	24.000	.6714-01	.8137-01	.7895-01	.9145	.3301-02	.3882-02	2.553	15.97	579.1
125	.00000	.35000	25.000	.6877-01	.8340-01	.8091-01	.9145	.3381-02	.3978-02	2.608	16.30	581.3
125	.00000	.40000	26.000	.6954-01	.8443-01	.8189-01	.9145	.3419-02	.4026-02	2.624	16.84	585.3
125	.00000	.45000	1027.0	.5866-01	.7127-01	.6912-01	.9145	.2884-02	.3398-02	2.204	14.55	588.4
125	.00000	.50000	1028.0	.7346-01	.8865-01	.8607-01	.9145	.3612-02	.4232-02	2.851	19.66	563.3
125	.00000	.55000	1029.0	.5345-01	.6508-01	.6309-01	.9145	.2628-02	.3102-02	1.990	14.41	595.4
125	.00000	.60000	1030.0	.5314-01	.6469-01	.6272-01	.9145	.2613-02	.3084-02	1.979	14.33	595.2
125	.00000	.65000	1031.0	.4722-01	.5751-01	.5575-01	.9145	.2322-02	.2741-02	1.756	12.71	596.3
125	.00000	.70000	1032.0	.5149-01	.6262-01	.6072-01	.9145	.2532-02	.2986-02	1.927	14.46	591.5
125	.00000	.75000	1033.0	.5466-01	.6651-01	.6449-01	.9145	.2688-02	.3171-02	2.040	14.78	593.6
125	.00000	.80000	1034.0	.7154-01	.8711-01	.8445-01	.9145	.3517-02	.4152-02	2.662	19.27	595.7
125	.00000	.85000	1035.0	.8104-01	.9870-01	.9677-01	.9092	.3984-02	.4758-02	3.011	22.53	596.9
125	10.000	.10000+00	45.000	.1184	.1436	.1436	.9000	.5822-02	.7061-02	4.490	27.27	581.5
125	14.000	.50000-01	44.000	.1760	.2143	.2143	.9000	.8655-02	.1054-01	6.560	44.53	594.7
125	20.000	.10000+00	207.00	.1645	.2001	.2001	.9000	.8088-02	.9839-02	6.148	35.18	592.5
125	20.000	.15000	211.00	.1009	.1223	.1223	.9000	.4961-02	.6012-02	3.840	24.02	578.7
125	22.000	.50000-01	202.00	.2213	.2695	.2695	.9000	.1088-01	.1325-01	8.228	44.65	596.4
125	24.000	.20000	48.000	.7176-01	.8708-01	.8708-01	.9000	.3528-02	.4281-02	2.713	23.70	583.7
125	24.500	.10000+00	208.00	.1725	.2101	.2101	.9000	.8481-02	.1033-01	6.412	39.76	596.6
125	25.500	.15000	212.00	.1031	.1252	.1252	.9000	.5070-02	.6157-02	3.882	33.87	586.8
125	31.500	.20000	215.00	.7705-01	.9376-01	.9376-01	.9000	.3788-02	.4610-02	2.876	28.42	593.4
125	35.000	.50000-01	203.00	.1727	.2094	.2094	.9000	.8489-02	.1030-01	6.541	40.85	582.1
125	35.000	.20000	216.00	.8295-01	.1010	.1010	.9000	.4078-02	.4963-02	3.093	30.55	594.2
125	39.000	.10000+00	209.00	.9662-01	.1167	.1167	.9000	.4750-02	.5739-02	3.729	23.46	567.6
125	40.000	.15000	213.00	.1434	.1750	.1750	.9000	.7050-02	.8605-02	5.280	38.06	603.8
125	40.000	.20000	217.00	.8046-01	.9814-01	.9814-01	.9000	.3956-02	.4825-02	2.970	32.14	601.9
125	42.500	.50000-01	204.00	.8824-01	.1065	.1065	.9000	.4338-02	.5235-02	3.426	22.91	562.9
125	45.500	.15000	214.00	.8404-01	.1014	.1014	.9000	.4132-02	.4987-02	3.261	18.94	563.4
125	51.000	.20000	218.00	.4544-01	.5471-01	.5471-01	.9000	.2234-02	.2690-02	1.782	11.28	554.9
125	60.000	.50000-01	205.00	.3354-01	.4028-01	.4028-01	.9000	.1649-02	.1980-02	1.334	9.005	543.9
125	67.500	.20000	219.00	.2702-01	.3253-01	.3253-01	.9000	.1329-02	.1600-02	1.061	7.837	554.2
125	96.500	.20000	1220.0	.2168-01	.2607-01	.2607-01	.9000	.1066-02	.1282-02	.8548	6.123	550.6
123	114.00	.40000	388.00	.1739-01	.2091-01	.2091-01	.9000	.8540-03	.1027-02	.6853	4.912	549.2
123	114.00	.50000	390.00	.2364-01	.2842-01	.2842-01	.9000	.1161-02	.1396-02	.9326	5.758	548.6
123	114.00	.70000	394.00	.5060-01	.6098-01	.6098-01	.9000	.2486-02	.2995-02	1.975	12.86	557.0
123	157.50	.40000	223.00	.3164-02	.3794-02	.3794-02	.9000	.1554-03	.1864-03	1.265	.8312	538.0
123	157.50	.50000	225.00	.5527-02	.6629-02	.6629-02	.9000	.2715-03	.3256-03	.2207	1.450	538.8
123	157.50	.70000	229.00	.2841-02	.3404-02	.3404-02	.9000	.1395-03	.1672-03	.1140	.8503	534.9
123	157.50	.80000	231.00	.8240-02	.9874-02	.9874-02	.9000	.4048-03	.4851-03	.3305	2.311	535.2
123	180.00	.40000	182.00	.8985-02	.1079-01	.1079-01	.9000	.4414-03	.5298-03	.3572	3.063	542.3
123	180.00	.50000	184.00	.8403-02	.1009-01	.1009-01	.9000	.4128-03	.4955-03	.3344	2.983	541.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 28

OH84B 60-0 FUSELAGE

(R4UA04)

RUN NUMBER	PHI	XB/LB	I/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
123	180.00	.60000	186.00	.6371-02	.7642-02	.7642-02	.9000	.3130-03	.3754-03	.2542	2.271	539.3
123	180.00	.70000	188.00	.5244-02	.6290-02	.6290-02	.9000	.2576-03	.3090-03	.2094	1.871	538.6
123	180.00	.80000	190.00	.5525-02	.6623-02	.6623-02	.9000	.2714-03	.3254-03	.2211	2.150	536.9
123	315.00	.40000	234.00	.1184-02	.1419-02	.1419-02	.9000	.5814-04	.6970-04	.4737-01	.3530	536.9
123	315.00	.50000	236.00	.2724-02	.3266-02	.3266-02	.9000	.1338-03	.1604-03	.1090	.6768	537.2
123	315.00	.70000	240.00	.3862-02	.4629-02	.4629-02	.9000	.1897-03	.2274-03	.1548	1.154	535.9
123	315.00	.80000	242.00	.9539-02	.1144-01	.1144-01	.9000	.4686-03	.5617-03	.3820	2.670	536.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 20

OH84B 60-0 FUSELAGE

(R4UA06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
11	.5125	7.900	29.95	.4910-02	100.6	1239.	91.88	.1118-01	.4884	3712.	.3284-03	.7393-07
12	.5316	7.900	29.95	.7364-02	104.3	1239.	91.88	.1159-01	.5065	3712.	.3406-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
11	.1709-01	.5657-01
12	.1740-01	.5555-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
11	.00000	.00000	1.0000	.5848	.7229	.6160	.9735	.9994-02	.1053-01	6.479	35.26	590.3
11	.00000	.50000-02	2.0000	.5563	.6906	.5707	.9870	.9506-02	.9753-02	6.055	40.96	601.7
11	.00000	.10000-01	3.0000	.4702	.5816	.4872	.9818	.8035-02	.8325-02	5.195	34.24	592.1
11	.00000	.20000-01	4.0000	.3204	.3935	.3456	.9608	.5475-02	.5905-02	3.647	20.03	572.5
12	.00000	.30000-01	5.0000	.2360	.2885	.2595	.9502	.4107-02	.4516-02	2.794	15.45	558.2
12	.00000	.40000-01	6.0000	.2160	.2640	.2408	.9434	.3759-02	.4191-02	2.561	14.17	557.5
12	.00000	.50000-01	7.0000	.1813	.2217	.2043	.9382	.3156-02	.3556-02	2.145	14.38	558.8
12	.00000	.60000-01	8.0000	.1838	.2247	.2087	.9346	.3199-02	.3632-02	2.177	13.75	558.3
12	.00000	.70000-01	9.0000	.1557	.1903	.1780	.9309	.2709-02	.3098-02	1.846	12.76	557.4
12	.00000	.80000-01	10.000	.1258	.1537	.1447	.9281	.2189-02	.2518-02	1.498	10.36	555.2
12	.00000	.90000-01	11.000	.1185	.1446	.1367	.9261	.2062-02	.2379-02	1.415	8.967	552.5
12	.00000	.10000+00	12.000	.1088	.1328	.1261	.9242	.1894-02	.2194-02	1.299	7.791	552.5
12	.00000	.12000	13.000	.9717-01	.1185	.1131	.9216	.1691-02	.1969-02	1.164	6.464	550.2
12	.00000	.13000	14.000	.9358-01	.1141	.1092	.9207	.1629-02	.1900-02	1.121	6.553	550.2
12	.00000	.14000	15.000	.8837-01	.1077	.1032	.9200	.1538-02	.1796-02	1.059	6.722	549.9
12	.00000	.15000	16.000	.8995-01	.1097	.1052	.9196	.1565-02	.1830-02	1.076	6.637	551.1
12	.00000	.16000	17.000	.8914-01	.1087	.1044	.9190	.1551-02	.1816-02	1.068	6.586	550.4
12	.00000	.17000	18.000	.8893-01	.1085	.1043	.9183	.1548-02	.1815-02	1.064	6.748	551.1
12	.00000	.18000	19.000	.8636-01	.1053	.1013	.9179	.1503-02	.1763-02	1.034	6.564	550.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA06)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TC	H(10) BTU/R FT2SEC	H(10W) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
12	.00000	.20000	21.000	.8327-01	.1015	.9794-01	.9166	.1449-02	.1705-02	.8992	6.344	549.1
12	.00000	.25000	23.000	.7720-01	.9413-01	.9124-01	.9144	.1344-02	.1588-02	.9253	5.872	550.0
12	.00000	.30000	24.000	.7076-01	.8627-01	.8362-01	.9144	.1231-02	.1455-02	.8486	5.387	549.8
12	.00000	.35000	25.000	.7199-01	.8776-01	.8506-01	.9144	.1253-02	.1480-02	.8636	5.482	549.3
12	.00000	.40000	26.000	.7057-01	.8605-01	.8340-01	.9144	.1228-02	.1451-02	.8458	5.525	550.0
12	.00000	.45000	1027.0	.6470-01	.7891-01	.7648-01	.9144	.1126-02	.1331-02	.7746	5.212	550.7
12	.00000	.50000	1028.0	.5605-01	.6834-01	.6624-01	.9144	.9754-03	.1153-02	.6717	4.663	550.0
12	.00000	.55000	1029.0	.5822-01	.7101-01	.6883-01	.9144	.1013-02	.1198-02	.6964	5.153	551.3
12	.00000	.60000	1030.0	.5308-01	.6473-01	.6274-01	.9144	.9238-03	.1092-02	.6357	4.706	550.6
12	.00000	.65000	1031.0	.4772-01	.5819-01	.5640-01	.9144	.8304-03	.9815-03	.5717	4.232	550.2
12	.00000	.70000	1032.0	.4727-01	.5764-01	.5587-01	.9144	.8226-03	.9723-03	.5662	4.336	550.4
12	.00000	.75000	1033.0	.4532-01	.5526-01	.5356-01	.9144	.7887-03	.9322-03	.5431	4.021	550.1
12	.00000	.80000	1034.0	.4676-01	.5699-01	.5524-01	.9144	.8137-03	.9614-03	.5615	4.160	548.7
12	.00000	.85000	1035.0	.4433-01	.5402-01	.5296-01	.9091	.7715-03	.9217-03	.5331	4.087	547.8
12	10.000	.10000+00	45.000	.1172	.1429	.1429	.9000	.2039-02	.2488-02	1.402	8.641	551.4
12	14.000	.50000-01	44.000	.1785	.2180	.2180	.9000	.3107-02	.3794-02	2.125	14.72	554.7
12	20.000	.10000+00	207.00	.1657	.2024	.2024	.9000	.2884-02	.3523-02	1.971	11.49	555.2
12	20.000	.15000	211.00	.1027	.1253	.1253	.9000	.1788-02	.2181-02	1.229	7.792	551.5
12	22.000	.50000-01	202.00	.2217	.2707	.2707	.9000	.3857-02	.4711-02	2.637	14.60	555.1
12	24.000	.20000	48.000	.7367-01	.8988-01	.8988-01	.9000	.1282-02	.1564-02	.8808	7.819	551.7
12	24.500	.10000+00	208.00	.1707	.2085	.2085	.9000	.2970-02	.3629-02	2.027	12.82	556.3
12	25.500	.15000	212.00	.1113	.1359	.1359	.9000	.1937-02	.2365-02	1.324	11.73	555.2
12	31.500	.20000	215.00	.7677-01	.9371-01	.9371-01	.9000	.1336-02	.1631-02	.9153	9.225	553.6
12	35.000	.50000-01	203.00	.1673	.2042	.2042	.9000	.2912-02	.3553-02	2.000	12.68	552.0
12	35.000	.20000	216.00	.8209-01	.1002	.1002	.9000	.1429-02	.1744-02	.9783	9.858	553.8
12	39.000	.10000+00	209.00	.9210-01	.1123	.1123	.9000	.1603-02	.1953-02	1.106	7.022	548.7
12	40.000	.15000	213.00	.1378	.1685	.1685	.9000	.2399-02	.2933-02	1.631	12.02	558.8
12	40.000	.20000	217.00	.7801-01	.9530-01	.9530-01	.9000	.1358-02	.1659-02	.9268	10.26	556.0
12	42.500	.50000-01	204.00	.8533-01	.1039	.1039	.9000	.1485-02	.1809-02	1.028	6.929	546.6
12	45.500	.15000	214.00	.7857-01	.9572-01	.9572-01	.9000	.1367-02	.1666-02	.9453	5.533	547.4
12	51.000	.20000	218.00	.4291-01	.5224-01	.5224-01	.9000	.7468-03	.9091-03	.5182	3.297	544.8
12	60.000	.50000-01	205.00	.3444-01	.4188-01	.4188-01	.9000	.5994-03	.7289-03	.4180	2.826	541.3
12	67.500	.20000	219.00	.2508-01	.3051-01	.3051-01	.9000	.4364-03	.5310-03	.3034	2.254	543.4
12	96.500	.20000	1220.0	.1948-01	.2370-01	.2378-01	.9000	.3391-03	.4125-03	.2360	1.697	542.6
11	114.00	.40000	388.00	.1693-01	.2058-01	.2058-01	.9000	.2892-03	.3518-03	.2016	1.450	541.8
11	114.00	.50000	390.00	.2206-01	.2683-01	.2683-01	.9000	.3770-03	.4585-03	.2627	1.627	541.9
11	114.00	.70000	394.00	.7188-02	.8735-02	.8735-02	.9000	.1228-03	.1493-03	.8594-01	.5645	539.1
11	157.50	.40000	223.00	.8786-03	.1067-02	.1067-02	.9000	.1501-04	.1824-04	.1051-01	.6907-01	538.5
11	157.50	.50000	225.00	.1697-02	.2060-02	.2060-02	.9000	.2900-04	.3521-04	.2039-01	.1342	535.7
11	157.50	.70000	229.00	.3129-02	.3801-02	.3801-02	.9000	.5348-04	.6495-04	.3751-01	.2795	537.3
11	157.50	.80000	231.00	.3521-02	.4276-02	.4276-02	.9000	.6017-04	.7308-04	.4222-01	.2950	537.1
11	180.00	.40000	182.00	.2685-02	.3263-02	.3263-02	.9000	.4589-04	.5576-04	.3210-01	.2758	539.1
11	180.00	.50000	184.00	.3738-02	.4542-02	.4542-02	.9000	.6388-04	.7763-04	.4469-01	.3992	539.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA06)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
11	180.00	.60000	186.00	.4305-02	.5231-02	.5231-02	.9000	.7358-04	.8939-04	.5151-01	.4603	538.6
11	180.00	.70000	188.00	.4806-02	.5838-02	.5838-02	.9000	.8212-04	.9977-04	.5751-01	.5139	538.4
11	180.00	.80000	190.00	.4611-02	.5601-02	.5601-02	.9000	.7879-04	.9572-04	.5520-01	.5363	538.1
11	315.00	.40000	234.00	.8763-03	.1065-02	.1065-02	.9000	.1498-04	.1819-04	.1048-01	.7807-01	538.6
11	315.00	.50000	236.00	.2560-02	.3111-02	.3111-02	.9000	.4375-04	.5316-04	.3062-01	.1900	538.9
11	315.00	.70000	240.00	.2199-02	.2671-02	.2671-02	.9000	.3758-04	.4565-04	.2635-01	.1964	537.5
11	315.00	.80000	242.00	.1701-02	.2066-02	.2066-02	.9000	.2908-04	.3531-04	.2040-01	.1425	537.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA08)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
48	1.981	7.980	29.96	.2453-02	434.4	1310.	95.35	.4522-01	2.016	3820.	.1280-02	.7672-07
49	2.016	7.980	29.96	-.2452-02	435.6	1297.	94.40	.4535-01	2.021	3801.	.1297-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
48	.3505-01	.2882-01
49	.3504-01	.2861-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
48	.00000	.00000	1.0000	.5859	.7251	.6173	.9735	.2054-01	.2164-01	14.01	74.89	627.4
48	.00000	.50000-02	2.0000	.5490	.6853	.5635	.9870	.1924-01	.1975-01	12.67	83.64	651.5
48	.00000	.10000-01	3.0000	.4681	.5799	.4851	.9818	.1641-01	.1701-01	11.15	72.11	630.4
48	.00000	.20000-01	4.0000	.3195	.3902	.3440	.9608	.1120-01	.1206-01	8.102	44.18	586.4
49	.00000	.30000-01	5.0000	.2346	.2862	.2577	.9502	.8222-02	.9032-02	5.914	32.40	577.3
49	.00000	.40000-01	6.0000	.2141	.2611	.2384	.9434	.7504-02	.8355-02	5.410	29.65	575.8
49	.00000	.50000-01	7.0000	.1769	.2159	.1991	.9383	.6200-02	.6978-02	4.450	29.52	578.9
49	.00000	.60000-01	8.0000	.1798	.2194	.2039	.9346	.6301-02	.7144-02	4.531	28.36	577.7
49	.00000	.70000-01	9.0000	.1515	.1848	.1730	.9309	.5310-02	.6063-02	3.827	26.22	575.8
49	.00000	.80000-01	10.000	.1226	.1492	.1406	.9281	.4295-02	.4928-02	3.117	21.41	571.0
49	.00000	.90000-01	11.000	.1149	.1396	.1322	.9261	.4025-02	.4632-02	2.944	18.54	565.3
49	.00000	.10000+00	12.000	.1046	.1270	.1207	.9242	.3664-02	.4231-02	2.688	18.03	563.1
49	.00000	.12000	13.000	.9222-01	.1119	.1070	.9216	.3232-02	.3749-02	2.382	13.17	559.5
49	.00000	.13000	14.000	.8815-01	.1070	.1024	.9207	.3089-02	.3590-02	2.276	13.24	559.8
49	.00000	.14000	15.000	.8458-01	.1027	.9844-01	.9201	.2964-02	.3449-02	2.182	13.77	560.4
49	.00000	.15000	16.000	.8746-01	.1062	.1019	.9196	.3065-02	.3572-02	2.251	13.81	562.1
49	.00000	.16000	17.000	.8607-01	.1045	.1004	.9190	.3016-02	.3519-02	2.217	13.60	561.6
49	.00000	.17000	18.000	.8527-01	.1036	.9964-01	.9183	.2988-02	.3492-02	2.193	13.83	562.7
49	.00000	.18000	19.000	.8305-01	.1009	.9713-01	.9179	.2910-02	.3404-02	2.138	13.49	562.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA06)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
49	.00000	.20000	21.000	.8026-01	.9741-01	.9407-01	.9166	.2812-02	.3296-02	2.071	13.08	560.3
49	.00000	.25000	23.000	.7318-01	.8886-01	.8619-01	.9145	.2564-02	.3020-02	1.884	11.89	561.9
49	.00000	.30000	24.000	.6749-01	.8194-01	.7948-01	.9145	.2365-02	.2785-02	1.738	10.97	561.6
49	.00000	.35000	25.000	.6899-01	.8378-01	.8126-01	.9145	.2418-02	.2848-02	1.776	11.20	562.1
49	.00000	.40000	26.000	.6811-01	.8276-01	.8026-01	.9145	.2387-02	.2813-02	1.749	11.34	564.0
49	.00000	.45000	1027.0	.5994-01	.7285-01	.7065-01	.9145	.2100-02	.2476-02	1.536	10.26	565.2
49	.00000	.50000	1028.0	.5458-01	.6631-01	.6431-01	.9145	.1913-02	.2254-02	1.402	9.666	563.6
49	.00000	.55000	1029.0	.5452-01	.6633-01	.6432-01	.9145	.1911-02	.2254-02	1.391	10.21	568.4
49	.00000	.60000	1030.0	.5115-01	.6221-01	.6033-01	.9145	.1792-02	.2114-02	1.307	9.594	567.4
49	.00000	.65000	1031.0	.4401-01	.5353-01	.5190-01	.9145	.1542-02	.1819-02	1.124	8.252	567.5
49	.00000	.70000	1032.0	.4361-01	.5307-01	.5145-01	.9145	.1528-02	.1803-02	1.113	8.442	568.7
49	.00000	.75000	1033.0	.4077-01	.4961-01	.4810-01	.9145	.1429-02	.1686-02	1.040	7.629	568.7
49	.00000	.80000	1034.0	.4443-01	.5403-01	.5239-01	.9145	.1557-02	.1836-02	1.136	8.342	566.9
49	.00000	.85000	1035.0	.4331-01	.5265-01	.5163-01	.9092	.1518-02	.1809-02	1.110	8.437	565.3
49	10.000	.10000+00	45.000	.1155	.1403	.1403	.9000	.4048-02	.4917-02	2.969	18.20	563.1
49	14.000	.50000-01	44.000	.1754	.2137	.2137	.9000	.6145-02	.7489-02	4.437	30.43	574.5
49	20.000	.10000+00	207.00	.1637	.1993	.1993	.9000	.5735-02	.6985-02	4.155	24.02	572.1
49	20.000	.15000	211.00	.9889-01	.1201	.1201	.9000	.3465-02	.4207-02	2.548	16.08	561.3
49	22.000	.50000-01	202.00	.2178	.2654	.2654	.9000	.7634-02	.9299-02	5.527	30.34	572.7
49	24.000	.20000	48.000	.7083-01	.8609-01	.8609-01	.9000	.2482-02	.3017-02	1.817	16.02	564.8
49	24.500	.10000+00	208.00	.1696	.2068	.2068	.9000	.5945-02	.7246-02	4.292	26.90	574.7
49	25.500	.15000	212.00	.1079	.1315	.1315	.9000	.3782-02	.4607-02	2.738	24.05	572.8
49	31.500	.20000	215.00	.7488-01	.9114-01	.9114-01	.9000	.2624-02	.3194-02	1.907	19.06	570.0
49	35.000	.50000-01	203.00	.1662	.2020	.2020	.9000	.5823-02	.7078-02	4.259	26.82	565.4
49	35.000	.20000	216.00	.7987-01	.9723-01	.9723-01	.9000	.2799-02	.3407-02	2.033	20.31	570.4
49	39.000	.10000+00	209.00	.9136-01	.1107	.1107	.9000	.3201-02	.3880-02	2.374	15.03	555.1
49	40.000	.15000	213.00	.1363	.1663	.1663	.9000	.4775-02	.5828-02	3.427	25.00	579.0
49	40.000	.20000	217.00	.7775-01	.9476-01	.9476-01	.9000	.2724-02	.3320-02	1.968	21.59	574.3
49	42.500	.50000-01	204.00	.8414-01	.1019	.1019	.9000	.2949-02	.3570-02	2.197	14.77	551.7
49	45.500	.15000	214.00	.7839-01	.9492-01	.9492-01	.9000	.2747-02	.3326-02	2.045	11.94	552.1
49	51.000	.20000	218.00	.4192-01	.5069-01	.5069-01	.9000	.1469-02	.1776-02	1.101	7.000	546.9
49	60.000	.50000-01	205.00	.3277-01	.3954-01	.3954-01	.9000	.1148-02	.1386-02	.8690	5.879	539.8
49	67.500	.20000	219.00	.2480-01	.2997-01	.2997-01	.9000	.8691-03	.1050-02	.6534	4.850	544.9
49	96.500	.20000	1220.0	.1998-01	.2413-01	.2413-01	.9000	.7001-03	.8456-03	.5276	3.793	543.1
48	114.00	.40000	388.00	.1742-01	.2099-01	.2099-01	.9000	.6105-03	.7358-03	.4696	3.381	540.6
48	114.00	.50000	390.00	.2578-01	.3106-01	.3106-01	.9000	.9035-03	.1089-02	.6952	4.311	540.2
48	114.00	.70000	394.00	.1329-01	.1600-01	.1600-01	.9000	.4658-03	.5607-03	.3605	2.372	535.8
48	157.50	.40000	223.00	.2739-02	.3297-02	.3297-02	.9000	.9603-04	.1156-03	.7441-01	.4898	534.8
48	157.50	.50000	225.00	.2614-02	.3146-02	.3146-02	.9000	.9164-04	.1103-03	.7106-01	.4679	534.3
48	157.50	.70000	229.00	.4257-02	.5120-02	.5120-02	.9000	.11492-03	.1795-03	.1160	.8661	532.6
48	157.50	.80000	231.00	.3276-02	.3937-02	.3937-02	.9000	.1148-03	.1380-03	.8949-01	.6274	530.3
48	180.00	.40000	182.00	.7898-02	.9512-02	.9512-02	.9000	.2769-03	.3334-03	.2136	1.836	538.0
48	180.00	.50000	184.00	.7770-02	.9357-02	.9357-02	.9000	.2724-03	.3280-03	.2104	1.881	537.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 34

OH84B 60-0 FUSELAGE

(R4UA06)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
48	180.00	.60000	186.00	.5414-02	.6517-02	.6517-02	.9000	.1898-03	.2284-03	.1469	1.315	535.4
48	180.00	.70000	188.00	.5557-02	.6699-02	.6699-02	.9000	.1951-03	.2348-03	.1513	1.354	534.5
48	180.00	.80000	190.00	.2224-02	.2674-02	.2674-02	.9000	.7796-04	.9374-04	.6066-01	.5913	531.6
48	315.00	.40000	234.00	.1256-02	.1511-02	.1511-02	.9000	.4403-04	.5297-04	.3417-01	.2551	533.7
48	315.00	.50000	236.00	.2104-02	.2531-02	.2531-02	.9000	.7376-04	.8873-04	.5726-01	.3563	533.3
48	315.00	.70000	240.00	.3199-02	.3847-02	.3847-02	.9000	.1121-03	.1349-03	.8721-01	.6516	532.0
48	315.00	.80000	242.00	.3363-02	.4042-02	.4042-02	.9000	.1179-03	.1417-03	.9185-01	.6439	530.5

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CH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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CH84B 60-0 FUSELAGE

(R4UA06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
77	3.028	7.990	29.98	-.2446-02	670.1	1315.	95.49	.6920-01	3.092	3827.	.1956-02	.7684-07
78	3.052	7.990	29.97	-.2449-02	670.0	1308.	94.98	.6919-01	3.092	3817.	.1966-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
77	.4345-01	.2332-01
78	.4340-01	.2325-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TOI) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
77	.00000	.00000	1.0000	.5832	.7277	.6157	.9735	.2534-01	.2675-01	16.78	88.60	652.4
77	.00000	.50000-02	2.0000	.5436	.6861	.5587	.9870	.2362-01	.2427-01	14.95	97.32	681.7
77	.00000	.10000-01	3.0000	.4654	.5815	.4829	.9819	.2022-01	.2098-01	13.32	85.10	656.0
77	.00000	.20000-01	4.0000	.3202	.3927	.3452	.9608	.1391-01	.1500-01	9.914	53.65	602.1
78	.00000	.30000-01	5.0000	.2341	.2861	.2573	.9503	.1016-01	.1117-01	7.305	39.79	588.6
78	.00000	.40000-01	6.0000	.2097	.2559	.2336	.9434	.9101-02	.1014-01	6.587	35.96	583.9
78	.00000	.50000-01	7.0000	.1746	.2134	.1966	.9383	.7577-02	.8535-02	5.451	35.99	588.3
78	.00000	.60000-01	8.0000	.1772	.2164	.2010	.9346	.7689-02	.8724-02	5.540	34.51	587.2
78	.00000	.70000-01	9.0000	.1498	.1830	.1713	.9309	.6503-02	.7433-02	4.697	32.03	585.4
78	.00000	.80000-01	10.000	.1231	.1501	.1414	.9281	.5343-02	.6137-02	3.881	26.52	581.3
78	.00000	.90000-01	11.000	.1149	.1399	.1324	.9262	.4989-02	.5746-02	3.659	22.94	574.3
78	.00000	.10000+00	12.000	.1045	.1271	.1208	.9242	.4538-02	.5244-02	3.340	19.84	571.8
78	.00000	.12000	13.000	.8878-01	.1078	.1030	.9216	.3853-02	.4472-02	2.857	15.74	566.2
78	.00000	.13000	14.000	.8643-01	.1049	.1005	.9207	.3751-02	.4361-02	2.780	16.11	566.6
78	.00000	.14000	15.000	.8365-01	.1016	.9740-01	.9201	.3630-02	.4227-02	2.687	16.90	567.7
78	.00000	.15000	16.000	.8582-01	.1043	.1001	.9197	.3725-02	.4343-02	2.749	16.79	569.7
78	.00000	.16000	17.000	.8543-01	.1038	.9974-01	.9190	.3708-02	.4329-02	2.737	16.72	569.5
78	.00000	.17000	18.000	.8349-01	.1015	.9764-01	.9184	.3624-02	.4238-02	2.670	16.77	570.9
78	.00000	.18000	19.000	.8186-01	.9950-01	.9580-01	.9179	.3553-02	.4158-02	2.621	16.47	570.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA06)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/10	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
78	.00000	.20000	21.000	.7981-01	.9697-01	.9362-01	.9166	.3464-02	.4063-02	2.561	16.10	568.5
78	.00000	.25000	23.000	.7156-01	.8702-01	.8438-01	.9145	.3106-02	.3662-02	2.286	14.35	571.6
78	.00000	.30000	24.000	.6721-01	.8172-01	.7924-01	.9145	.2917-02	.3439-02	2.147	13.48	571.8
78	.00000	.35000	25.000	.6869-01	.8357-01	.8103-01	.9145	.2982-02	.3517-02	2.190	13.74	573.2
78	.00000	.40000	26.000	.6609-01	.8049-01	.7803-01	.9145	.2868-02	.3387-02	2.097	13.51	576.8
78	.00000	.45000	1027.0	.5887-01	.7173-01	.6953-01	.9145	.2555-02	.3018-02	1.864	12.37	578.1
78	.00000	.50000	1028.0	.6694-01	.8148-01	.7899-01	.9145	.2905-02	.3428-02	2.129	14.59	574.9
78	.00000	.55000	1029.0	.6129-01	.7479-01	.7248-01	.9145	.2660-02	.3146-02	1.928	14.04	583.1
78	.00000	.60000	1030.0	.5069-01	.6185-01	.5994-01	.9145	.2200-02	.2601-02	1.595	11.62	582.8
78	.00000	.65000	1031.0	.4403-01	.5372-01	.5206-01	.9145	.1911-02	.2260-02	1.385	10.09	582.9
78	.00000	.70000	1032.0	.4515-01	.5497-01	.5329-01	.9145	.1960-02	.2313-02	1.434	10.84	575.9
78	.00000	.75000	1033.0	.4409-01	.5368-01	.5204-01	.9145	.1914-02	.2259-02	1.401	10.24	575.5
78	.00000	.80000	1034.0	.5337-01	.6499-01	.6301-01	.9145	.2317-02	.2735-02	1.694	12.38	576.3
78	.00000	.85000	1035.0	.5623-01	.6846-01	.6712-01	.9092	.2441-02	.2913-02	1.786	13.51	575.7
78	10.000	.10000+00	45.000	.1160	.1411	.1411	.9000	.5036-02	.6125-02	3.704	22.60	572.2
78	14.000	.50000-01	44.000	.1735	.2116	.2116	.9000	.7529-02	.9183-02	5.467	37.35	581.6
78	20.000	.10000+00	207.00	.1626	.1984	.1984	.9000	.7056-02	.8612-02	5.108	29.35	583.8
78	20.000	.15000	211.00	.9925-01	.1206	.1206	.9000	.4308-02	.5236-02	3.177	19.96	570.2
78	22.000	.50000-01	202.00	.2164	.2640	.2640	.9000	.9394-02	.1146-01	6.815	37.24	582.2
78	24.000	.20000	48.000	.7020-01	.8543-01	.8543-01	.9000	.3047-02	.3708-02	2.235	19.62	574.2
78	24.500	.10000+00	208.00	.1684	.2056	.2056	.9000	.7308-02	.8922-02	5.282	32.94	584.9
78	25.500	.15000	212.00	.9531-01	.1162	.1162	.9000	.4137-02	.5043-02	3.009	26.34	580.2
78	31.500	.20000	215.00	.7500-01	.9148-01	.9148-01	.9000	.3255-02	.3971-02	2.362	23.47	582.0
78	35.000	.50000-01	203.00	.1666	.2026	.2026	.9000	.7229-02	.8795-02	5.310	33.31	573.1
78	35.000	.20000	216.00	.7952-01	.9701-01	.9701-01	.9000	.3451-02	.4211-02	2.503	24.86	582.5
78	39.000	.10000+00	209.00	.9148-01	.1109	.1109	.9000	.3970-02	.4813-02	2.966	18.73	560.5
78	40.000	.15000	213.00	.1366	.1672	.1672	.9000	.5929-02	.7255-02	4.242	30.75	592.3
78	40.000	.20000	217.00	.8051-01	.9836-01	.9836-01	.9000	.3494-02	.4269-02	2.517	27.44	587.4
78	42.500	.50000-01	204.00	.8343-01	.1010	.1010	.9000	.3621-02	.4385-02	2.718	18.23	557.0
78	45.500	.15000	214.00	.7978-01	.9663-01	.9663-01	.9000	.3463-02	.4194-02	2.597	15.12	557.8
78	51.000	.20000	218.00	.4145-01	.5010-01	.5010-01	.9000	.1799-02	.2174-02	1.363	8.646	550.3
78	60.000	.50000-01	205.00	.3263-01	.3936-01	.3936-01	.9000	.1416-02	.1708-02	1.083	7.314	543.1
78	67.500	.20000	219.00	.2538-01	.3067-01	.3067-01	.9000	.1102-02	.1331-02	.8354	6.187	549.3
78	96.500	.20000	1220.0	.1992-01	.2405-01	.2405-01	.9000	.8644-03	.1044-02	.8580	4.723	546.4
77	114.00	.40000	388.00	.1693-01	.2042-01	.2042-01	.9000	.7357-03	.8873-03	.5661	4.066	545.1
77	114.00	.50000	390.00	.2181-01	.2629-01	.2629-01	.9000	.9474-03	.1142-02	.7301	4.518	544.0
77	114.00	.70000	394.00	.1967-01	.2370-01	.2370-01	.9000	.8545-03	.1030-02	.6605	4.333	541.7
77	157.50	.40000	223.00	.3538-02	.4258-02	.4258-02	.9000	.1537-03	.1850-03	.1195	.7860	537.1
77	157.50	.50000	225.00	.3848-02	.4631-02	.4631-02	.9000	.1672-03	.2012-03	.1301	.8554	536.7
77	157.50	.70000	229.00	.3907-02	.4698-02	.4698-02	.9000	.1697-03	.2041-03	.1325	.9892	533.9
77	157.50	.80000	231.00	.7707-02	.9268-02	.9268-02	.9000	.3349-03	.4027-03	.2614	1.829	534.0
77	180.00	.40000	182.00	.9891-02	.1191-01	.1191-01	.9000	.4297-02	.5177-03	.3325	2.854	540.8
77	180.00	.50000	184.00	.7903-02	.9517-02	.9517-02	.9000	.3434-03	.4135-03	.2662	2.377	539.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA08)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
77	180.00	.60000	186.00	.5217-02	.6280-02	.6280-02	.9000	.2267-03	.2728-03	.1761	1.574	537.8
77	180.00	.70000	188.00	.7070-02	.8507-02	.8507-02	.9000	.3072-03	.3696-03	.2391	2.139	536.3
77	180.00	.80000	190.00	.2482-02	.2984-02	.2984-02	.9000	.1078-03	.1296-03	.8418-01	.8195	534.0
77	315.00	.40000	234.00	.1103-02	.1327-02	.1327-02	.9000	.4791-04	.5764-04	.3733-01	.2784	535.6
77	315.00	.50000	236.00	.2399-02	.2886-02	.2886-02	.9000	.1042-03	.1254-03	.8117-01	.5044	535.9
77	315.00	.70000	240.00	.3625-02	.4360-02	.4360-02	.9000	.1575-03	.1894-03	.1228	.9163	534.9
77	315.00	.80000	242.00	.4906-02	.5898-02	.5898-02	.9000	.2131-03	.2563-03	.1665	1.165	533.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDGRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
120	3.698	8.000	29.97	.7342-02	853.1	1349.	97.73	.8738-01	3.915	3877.	.2413-02	.7864-07
121	3.693	8.000	29.97	.4899-02	853.8	1351.	97.87	.8746-01	3.918	3880.	.2412-02	.7876-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
120	.4910-01	.2105-01
121	.4913-01	.2106-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
120	.00000	.00000	1.0000	.5834	.7302	.6163	.9735	.2864-01	.3026-01	19.21	100.2	678.0
120	.00000	.50000-02	2.0000	.5437	.6898	.5591	.9870	.2670-01	.2745-01	17.00	109.1	712.0
120	.00000	.10000-01	3.0000	.4651	.5830	.4828	.9819	.2284-01	.2370-01	15.23	96.10	681.9
120	.00000	.20000-01	4.0000	.3229	.3960	.3481	.9608	.1586-01	.1709-01	11.59	62.23	617.7
121	.00000	.30000-01	5.0000	.2363	.2877	.2593	.9503	.1161-01	.1274-01	8.769	47.61	595.2
121	.00000	.40000-01	6.0000	.2094	.2545	.2328	.9434	.1029-01	.1144-01	7.837	42.68	588.9
121	.00000	.50000-01	7.0000	.1751	.2133	.1969	.9383	.8605-02	.9673-02	6.500	42.77	595.3
121	.00000	.60000-01	8.0000	.1781	.2168	.2017	.9346	.8752-02	.9809-02	6.620	41.09	594.3
121	.00000	.70000-01	9.0000	.1508	.1835	.1719	.9309	.7409-02	.8449-02	5.618	38.18	592.4
121	.00000	.80000-01	10.000	.1228	.1492	.1407	.9281	.6035-02	.6912-02	4.617	31.48	585.6
121	.00000	.90000-01	11.000	.1157	.1402	.1329	.9262	.5684-02	.6528-02	4.382	27.40	579.7
121	.00000	.10000+00	12.000	.1057	.1280	.1218	.9242	.5192-02	.5984-02	4.020	23.81	576.5
121	.00000	.12000	13.000	.8991-01	.1087	.1040	.9216	.4417-02	.5111-02	3.447	18.95	570.3
121	.00000	.13000	14.000	.8783-01	.1053	.1009	.9207	.4276-02	.4957-02	3.334	19.28	571.0
121	.00000	.14000	15.000	.8416-01	.1019	.9776-01	.9201	.4135-02	.4803-02	3.209	20.11	574.7
121	.00000	.15000	16.000	.8721-01	.1056	.1014	.9197	.4285-02	.4982-02	3.324	20.26	574.9
121	.00000	.16000	17.000	.8611-01	.1043	.1002	.9190	.4231-02	.4925-02	3.283	20.01	574.7
121	.00000	.17000	18.000	.8407-01	.1018	.9804-01	.9184	.4131-02	.4817-02	3.198	20.03	576.5
121	.00000	.18000	19.000	.8234-01	.9973-01	.9609-01	.9179	.4046-02	.4721-02	3.135	19.64	575.9

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(FUA06)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(10) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
121	.00000	.20000	21.000	.8058-01	.9756-01	.9425-01	.9166	.3959-02	.4631-02	3.074	19.27	574.2
121	.00000	.25000	23.000	.7204-01	.8729-01	.8469-01	.9145	.3540-02	.4161-02	2.737	17.13	577.5
121	.00000	.30000	24.000	.6748-01	.8178-01	.7935-01	.9145	.3316-02	.3899-02	2.562	16.03	578.0
121	.00000	.35000	25.000	.6890-01	.8355-01	.8106-01	.9145	.3386-02	.3983-02	2.608	16.30	580.3
121	.00000	.40000	26.000	.6663-01	.8089-01	.7846-01	.9145	.3274-02	.3855-02	2.509	16.11	584.2
121	.00000	.45000	1027.0	.5900-01	.7168-01	.6952-01	.9145	.2899-02	.3416-02	2.214	14.63	587.0
121	.00000	.50000	1028.0	.5461-01	.6625-01	.6426-01	.9145	.2683-02	.3158-02	2.062	14.08	582.1
121	.00000	.55000	1029.0	.5320-01	.6474-01	.6277-01	.9145	.2614-02	.3084-02	1.980	14.35	593.0
121	.00000	.60000	1030.0	.5264-01	.6405-01	.6210-01	.9145	.2586-02	.3051-02	1.961	14.21	592.6
121	.00000	.65000	1031.0	.4763-01	.5797-01	.5620-01	.9145	.2340-02	.2762-02	1.771	12.83	593.8
121	.00000	.70000	1032.0	.5210-01	.6333-01	.6141-01	.9145	.2560-02	.3017-02	1.949	14.64	589.1
121	.00000	.75000	1033.0	.5566-01	.6770-01	.6565-01	.9145	.2735-02	.3225-02	2.076	15.06	591.4
121	.00000	.80000	1034.0	.7366-01	.8965-01	.8692-01	.9145	.3619-02	.4270-02	2.740	19.85	593.5
121	.00000	.85000	1035.0	.8270-01	.1007	.9872-01	.9092	.4063-02	.4851-02	3.071	23.00	595.0
121	10.000	.10000+00	45.000	.1170	.1418	.1418	.9000	.5750-02	.6969-02	4.442	27.02	578.2
121	14.000	.50000-01	44.000	.1733	.2108	.2108	.9000	.8515-02	.1036-01	6.469	44.00	580.8
121	20.000	.10000+00	207.00	.1614	.1962	.1962	.9000	.7931-02	.9641-02	6.042	34.64	588.9
121	20.000	.15000	211.00	.9958-01	.1206	.1206	.9000	.4892-02	.5925-02	3.794	23.77	575.3
121	22.000	.50000-01	202.00	.2155	.2623	.2623	.9000	.1059-01	.1289-01	8.032	43.67	592.2
121	24.000	.20000	48.000	.7032-01	.8529-01	.8529-01	.9000	.3455-02	.4190-02	2.659	23.27	580.9
121	24.500	.10000+00	208.00	.1682	.2046	.2046	.9000	.8262-02	.1005-01	6.265	38.93	592.3
121	25.500	.15000	212.00	.9132-01	.1106	.1106	.9000	.4487-02	.5435-02	3.473	30.45	576.6
121	31.500	.20000	215.00	.7417-01	.9018-01	.9018-01	.9000	.3644-02	.4431-02	2.773	27.44	589.8
121	35.000	.50000-01	203.00	.1658	.2009	.2009	.9000	.8148-02	.9873-02	6.299	39.42	577.7
121	35.000	.20000	216.00	.7941-01	.9656-01	.9656-01	.9000	.3902-02	.4745-02	2.967	29.37	590.2
121	39.000	.10000+00	209.00	.9135-01	.1103	.1103	.9000	.4489-02	.5417-02	3.536	22.30	562.8
121	40.000	.15000	213.00	.1375	.1675	.1675	.9000	.6754-02	.8231-02	5.084	36.75	598.0
121	40.000	.20000	217.00	.7977-01	.9720-01	.9720-01	.9000	.3919-02	.4776-02	2.952	32.02	597.5
121	42.500	.50000-01	204.00	.8342-01	.1006	.1006	.9000	.4099-02	.4942-02	3.245	21.74	559.0
121	45.500	.15000	214.00	.7888-01	.9509-01	.9509-01	.9000	.3876-02	.4672-02	3.071	17.88	558.2
121	51.000	.20000	218.00	.4167-01	.5014-01	.5014-01	.9000	.2048-02	.2463-02	1.638	10.39	550.8
121	60.000	.50000-01	205.00	.3185-01	.3822-01	.3822-01	.9000	.1565-02	.1878-02	1.267	8.567	541.0
121	67.500	.20000	219.00	.2511-01	.3021-01	.3021-01	.9000	.1234-02	.1484-02	.9875	7.310	550.2
121	96.500	.20000	1220.0	.1994-01	.2396-01	.2396-01	.9000	.9796-03	.1177-02	.7873	5.650	546.9
120	114.00	.40000	388.00	.1657-01	.1993-01	.1993-01	.9000	.8136-03	.9784-03	.6514	4.672	548.1
120	114.00	.50000	390.00	.2184-01	.2626-01	.2626-01	.9000	.1072-02	.1289-02	.8597	5.312	547.0
120	114.00	.70000	394.00	.2491-01	.2995-01	.2995-01	.9000	.1223-02	.1471-02	.9796	6.407	547.7
120	157.50	.40000	223.00	.4451-02	.5341-02	.5341-02	.9000	.2185-03	.2622-03	.1769	1.162	539.2
120	157.50	.50000	225.00	.6089-02	.7307-02	.7307-02	.9000	.2990-03	.3588-03	.2420	1.590	539.3
120	157.50	.70000	229.00	.5202-02	.6239-02	.6239-02	.9000	.2554-03	.3063-03	.2072	1.544	537.5
120	157.50	.80000	231.00	.6155-02	.7380-02	.7380-02	.9000	.3022-03	.3624-03	.2455	1.716	536.2
120	180.00	.40000	182.00	.1076-01	.1293-01	.1293-01	.9000	.5286-03	.6351-03	.4251	3.641	544.5
120	180.00	.50000	184.00	.8831-02	.1061-01	.1061-01	.9000	.4336-03	.5208-03	.3494	3.115	543.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 40

OH84B 60-0 FUSELAGE

(R4UA08)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
120	180.00	.60000	186.00	.5433-02	.6521-02	.6521-02	.9000	.2667-03	.3202-03	.2156	1.924	540.6
120	180.00	.70000	188.00	.4977-02	.5972-02	.5972-02	.9000	.2444-03	.2932-03	.1977	1.766	539.5
120	180.00	.80000	190.00	.3311-02	.3971-02	.3971-02	.9000	.1626-03	.1950-03	.1319	1.282	537.2
120	315.00	.40000	234.00	.1211-02	.1452-02	.1452-02	.9000	.5944-04	.7130-04	.4821-01	.3591	537.7
120	315.00	.50000	236.00	.2911-02	.3492-02	.3492-02	.9000	.1429-03	.1715-03	.1159	.7192	538.1
120	315.00	.70000	240.00	.4006-02	.4805-02	.4805-02	.9000	.1957-03	.2359-03	.1596	1.190	537.1
120	315.00	.80000	242.00	.5884-02	.7055-02	.7055-02	.9000	.2889-03	.3464-03	.2347	1.640	536.3

DATE 23 FEB 89

OH84B MODEL 60-0 IN THE AEDC WKF HYPERSONIC TUNNEL

PAGE 41

OH84B 60-0 FUSELAGE

(R4UA07)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
148	2.006	7.980	29.97	- .4892-02	434.9	1300.	94.62	.4528-01	2.018	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
148	.3503-01	.2867-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TH DEG. R
148	.00000	.30000-01	5.0000	.2338	.2848	.2566	.9503	.8189-02	.8990-02	5.941	32.59	574.2
148	.00000	.40000-01	6.0000	.2101	.2558	.2337	.9434	.7360-02	.8188-02	5.353	29.39	572.3
148	.00000	.50000-01	7.0000	.1780	.2168	.2001	.9383	.6234-02	.7008-02	4.522	30.07	574.2
148	.00000	.60000-01	8.0000	.1797	.2190	.2036	.9346	.6294-02	.7131-02	4.559	28.56	575.4
148	.00000	.70000-01	9.0000	.1518	.1849	.1732	.9310	.5318-02	.6068-02	3.858	26.46	574.1
148	.00000	.80000-01	10.000	.1232	.1499	.1413	.9281	.4316-02	.4948-02	3.153	21.68	569.1
148	.00000	.90000-01	11.000	.1151	.1398	.1323	.9262	.4031-02	.4636-02	2.967	18.70	563.7
148	.00000	.10000+00	12.000	.1048	.1272	.1209	.9242	.3671-02	.4237-02	2.709	16.17	561.7
148	.00000	.12000	13.000	.9159-01	.1111	.1062	.9216	.3208-02	.3719-02	2.378	13.15	558.6
148	.00000	.13000	14.000	.8849-01	.1073	.1028	.9207	.3100-02	.3600-02	2.296	13.36	558.8
148	.00000	.14000	15.000	.8477-01	.1029	.9864-01	.9201	.2969-02	.3455-02	2.193	13.84	561.2
148	.00000	.15000	16.000	.8642-01	.1049	.1007	.9197	.3027-02	.3526-02	2.235	13.71	561.5
148	.00000	.16000	17.000	.8628-01	.1047	.1006	.9190	.3022-02	.3524-02	2.232	13.69	561.1
148	.00000	.17000	18.000	.8475-01	.1029	.9899-01	.9184	.2969-02	.3468-02	2.189	13.80	562.4
148	.00000	.18000	19.000	.8337-01	.1012	.9745-01	.9179	.2920-02	.3414-02	2.155	13.60	561.6
148	.00000	.20000	21.000	.8090-01	.9816-01	.9479-01	.9166	.2834-02	.3321-02	2.095	13.23	560.4
148	.00000	.25000	23.000	.7216-01	.8760-01	.8496-01	.9145	.2528-02	.2976-02	1.864	11.76	562.2
148	.00000	.30000	24.000	.6726-01	.8165-01	.7919-01	.9145	.2356-02	.2774-02	1.737	10.96	562.3
148	.00000	.35000	25.000	.6887-01	.8364-01	.8112-01	.9145	.2413-02	.2841-02	1.776	11.19	563.5
148	.00000	.40000	26.000	.6594-01	.8015-01	.7772-01	.9145	.2310-02	.2723-02	1.693	10.97	566.7
148	.00000	.45000	1027.0	.5806-01	.7182-01	.8964-01	.8145	.2069-02	.2439-02	1.514	10.10	568.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 48

OH84B 60-0 FUSELAGE

(R4UA07)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
148	.00000	.50000	1028.0	.5133-01	.6237-01	.6048-01	.9145	.1798-02	.2119-02	1.320	9.093	565.4
148	.00000	.55000	1029.0	.5465-01	.6652-01	.6449-01	.9145	.1914-02	.2259-02	1.394	10.21	571.6
148	.00000	.60000	1030.0	.5010-01	.6098-01	.5912-01	.9145	.1755-02	.2071-02	1.279	9.368	571.0
148	.00000	.65000	1031.0	.4387-01	.5338-01	.5176-01	.9145	.1537-02	.1813-02	1.120	8.210	570.6
148	.00000	.70000	1032.0	.4302-01	.5223-01	.5066-01	.9145	.1507-02	.1775-02	1.110	8.448	562.9
148	.00000	.75000	1033.0	.4101-01	.4980-01	.4830-01	.9145	.1437-02	.1692-02	1.058	7.782	563.2
148	.00000	.80000	1034.0	.4519-01	.5485-01	.5320-01	.9145	.1583-02	.1864-02	1.168	8.599	561.7
148	.00000	.85000	1035.0	.4289-01	.5203-01	.5103-01	.9092	.1502-02	.1787-02	1.111	8.469	560.0
148	10.000	.10000+00	45.000	.1154	.1402	.1402	.9000	.4043-02	.4910-02	2.978	18.25	563.2
148	14.000	.50000-01	44.000	.1746	.2127	.2127	.9000	.6117-02	.7452-02	4.437	30.43	574.3
148	20.000	.10000+00	207.00	.1622	.1974	.1974	.9000	.5682-02	.6916-02	4.137	23.92	571.6
148	20.000	.15000	211.00	.9930-01	.1205	.1205	.9000	.3478-02	.4230-02	2.571	16.23	560.5
148	22.000	.50000-01	202.00	.2171	.2646	.2646	.9000	.7606-02	.9270-02	5.508	30.20	575.5
148	24.000	.20000	48.000	.7013-01	.8515-01	.8515-01	.9000	.2457-02	.2983-02	1.810	15.98	562.9
148	24.500	.10000+00	208.00	.1699	.2069	.2069	.9000	.5950-02	.7249-02	4.318	27.07	574.1
148	25.500	.15000	212.00	.1093	.1330	.1330	.9000	.3828-02	.4659-02	2.789	24.52	571.2
148	31.500	.20000	215.00	.7474-01	.9090-01	.9090-01	.9000	.2618-02	.3184-02	1.914	19.14	568.7
148	35.000	.50000-01	203.00	.1654	.2011	.2011	.9000	.5794-02	.7046-02	4.236	26.64	568.5
148	35.000	.20000	216.00	.7998-01	.9729-01	.9729-01	.9000	.2802-02	.3408-02	2.047	20.47	569.0
148	39.000	.10000+00	209.00	.9016-01	.1092	.1092	.9000	.3158-02	.3826-02	2.350	14.87	555.5
148	40.000	.15000	213.00	.1377	.1679	.1679	.9000	.4825-02	.5882-02	3.488	25.48	576.8
148	40.000	.20000	217.00	.7900-01	.9624-01	.9624-01	.9000	.2767-02	.3371-02	2.009	22.04	573.8
148	42.500	.50000-01	204.00	.8337-01	.1010	.1010	.9000	.2920-02	.3537-02	2.177	14.62	554.3
148	45.500	.15000	214.00	.7721-01	.9344-01	.9344-01	.9000	.2705-02	.3273-02	2.025	11.83	551.1
148	51.000	.20000	218.00	.4085-01	.4938-01	.4938-01	.9000	.1431-02	.1730-02	1.077	6.846	547.0
148	60.000	.50000-01	205.00	.3164-01	.3820-01	.3820-01	.9000	.1108-02	.1338-02	.8387	5.665	542.9
148	67.500	.20000	219.00	.2429-01	.2935-01	.2935-01	.9000	.8508-03	.1028-02	.6417	4.762	545.5
148	96.500	.20000	1220.0	.1946-01	.2350-01	.2350-01	.9000	.6816-03	.8233-03	.5144	3.696	544.9

DATE 23 FEB 60

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 43

OH84B 60-0 FUSELAGE

(R4UA08)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 1.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
51	2.021	7.980	29.94	1.035	434.5	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07
52	1.990	7.980	29.94	1.035	434.8	1307.	95.13	.4526-01	2.018	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
51	.3498-01	.2859-01
52	.3506-01	.2877-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
51	.00000	.00000	1.0000	.5852	.7260	.6169	.9735	.2047-01	.2158-01	13.64	72.95	626.2
51	.00000	.50000-02	2.0000	.5451	.6822	.5598	.9873	.1907-01	.1958-01	12.27	81.09	649.3
51	.00000	.10000-01	3.0000	.4657	.5782	.4827	.9818	.1629-01	.1689-01	10.82	70.03	628.6
51	.00000	.20000-01	4.0000	.3198	.3912	.3445	.9607	.1118-01	.1205-01	7.918	43.21	584.8
52	.00000	.30000-01	5.0000	.2346	.2857	.2575	.9502	.8223-02	.9027-02	6.006	32.91	576.3
52	.00000	.40000-01	6.0000	.2141	.2607	.2382	.9433	.7507-02	.8352-02	5.495	30.13	574.8
52	.00000	.50000-01	7.0000	.1775	.2163	.1996	.9382	.6222-02	.6998-02	4.534	30.09	578.0
52	.00000	.60000-01	8.0000	.1803	.2197	.2043	.9346	.6322-02	.7162-02	4.613	28.89	577.0
52	.00000	.70000-0	9.0000	.1518	.1848	.1732	.9309	.5321-02	.6071-02	3.893	26.68	575.1
52	.00000	.80000-01	10.000	.1225	.1489	.1404	.9280	.4294-02	.4922-02	3.161	21.72	570.4
52	.00000	.90000-01	11.000	.1149	.1395	.1321	.9261	.4029-02	.4632-02	2.990	18.83	564.7
52	.00000	.10000+00	12.000	.1050	.1274	.1211	.9241	.3681-02	.4247-02	2.740	16.34	562.4
52	.00000	.12000	13.000	.9052-01	.1097	.1049	.9215	.3173-02	.3678-02	2.373	13.12	558.9
52	.00000	.13000	14.000	.8802-01	.1067	.1022	.9207	.3086-02	.3583-02	2.307	13.42	559.2
52	.00000	.14000	15.000	.8488-01	.1029	.9870-01	.9200	.2976-02	.3460-02	2.222	14.03	559.9
52	.00000	.15000	16.000	.8772-01	.1064	.1021	.9196	.3075-02	.3580-02	2.291	14.05	561.6
52	.00000	.16000	17.000	.8699-01	.1055	.1014	.9189	.3049-02	.3555-02	2.273	13.95	561.2
52	.00000	.17000	18.000	.8451-01	.1025	.9866-01	.9183	.2962-02	.3459-02	2.205	13.91	562.4
52	.00000	.18000	19.000	.8355-01	.1013	.9762-01	.9178	.2929-02	.3422-02	2.182	13.77	561.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC WAF HYPERSONIC TUNNEL

PAGE 54

OH84B 60-0 FUSELAGE

(R4UA08)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(10) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
52	.00000	.20000	21.000	.8167-01	.9899-01	.9564-01	.9166	.2863-02	.3353-02	2.138	13.50	560.0
52	.00000	.25000	23.000	.7252-01	.8794-01	.8533-01	.9144	.2542-02	.2991-02	1.893	11.95	561.8
52	.00000	.30000	24.000	.6810-01	.8258-01	.8013-01	.9144	.2387-02	.2809-02	1.779	11.22	561.7
52	.00000	.35000	25.000	.6975-01	.8461-01	.8209-01	.9144	.2445-02	.2878-02	1.820	11.48	562.4
52	.00000	.40000	26.000	.6980-01	.8471-01	.8218-01	.9144	.2447-02	.2881-02	1.816	11.78	564.4
52	.00000	.45000	1027.0	.5900-01	.7163-01	.6949-01	.9144	.2068-02	.2436-02	1.532	10.23	565.8
52	.00000	.50000	1028.0	.5621-01	.6323-01	.6619-01	.9144	.1971-02	.2321-02	1.462	10.07	564.9
52	.00000	.55000	1029.0	.4967-01	.6029-01	.5848-01	.9144	.1741-02	.2050-02	1.292	9.191	564.9
52	.00000	.60000	1030.0	.5074-01	.6164-01	.5979-01	.9144	.1779-02	.2096-02	1.314	9.445	567.8
52	.00000	.65000	1031.0	.4436-01	.5390-01	.5228-01	.9144	.1555-02	.1833-02	1.149	8.331	567.9
52	.00000	.70000	1032.0	.4368-01	.5308-01	.5149-01	.9144	.1531-02	.1805-02	1.130	8.172	568.9
52	.00000	.75000	1033.0	.4117-01	.5003-01	.4853-01	.9144	.1443-02	.1701-02	1.065	7.712	568.8
52	.00000	.80000	1034.0	.4456-01	.5411-01	.5249-01	.9144	.1562-02	.1840-02	1.156	8.190	566.5
52	.00000	.85000	1035.0	.4224-01	.5127-01	.5029-01	.9091	.1481-02	.1763-02	1.099	8.153	564.7
52	10.000	.10000+00	45.000	.1143	.1386	.1386	.9000	.4007-02	.4860-02	2.984	18.30	562.1
52	14.000	.50000-01	44.000	.1728	.2103	.2103	.9000	.6058-02	.7371-02	4.445	30.50	573.0
52	20.000	.10000+00	207.00	.1599	.1944	.1944	.9000	.5605-02	.6815-02	4.127	23.88	570.4
52	20.000	.15000	211.00	.9767-01	.1184	.1184	.9000	.3424-02	.4150-02	2.557	16.15	559.9
52	22.000	.50000-01	202.00	.2132	.2592	.2592	.9000	.7473-02	.9086-02	5.500	30.22	570.7
52	24.000	.20000	48.000	.6952-01	.8435-01	.8435-01	.9000	.2437-02	.2957-02	1.811	15.98	563.7
52	24.500	.10000+00	208.00	.1650	.2007	.2007	.9000	.5783-02	.7035-02	4.246	26.64	572.5
52	25.500	.15000	212.00	.1038	.1262	.1262	.9000	.3638-02	.4423-02	2.680	23.57	570.0
52	31.500	.20000	215.00	.7260-01	.8821-01	.8821-01	.9000	.2545-02	.3092-02	1.880	18.80	568.2
52	35.000	.50000-01	203.00	.1596	.1936	.1936	.9000	.5596-02	.6788-02	4.164	26.28	562.6
52	35.000	.20000	216.00	.7657-01	.9304-01	.9304-01	.9000	.2684-02	.3262-02	1.982	19.83	568.3
52	39.000	.10000+00	209.00	.8593-01	.1039	.1039	.9000	.3012-02	.3644-02	2.272	14.40	552.3
52	40.000	.15000	213.00	.1302	.1585	.1585	.9000	.4563-02	.5556-02	3.335	24.38	575.7
52	40.000	.20000	217.00	.7571-01	.9210-01	.9210-01	.9000	.2654-02	.3229-02	1.950	21.41	572.2
52	42.500	.50000-01	204.00	.8003-01	.9672-01	.9672-01	.9000	.2806-02	.3391-02	2.125	14.31	549.3
52	45.500	.15000	214.00	.7260-01	.8774-01	.8774-01	.9000	.2545-02	.3076-02	1.928	11.27	549.3
52	51.000	.20000	218.00	.3823-01	.4614-01	.4614-01	.9000	.1340-02	.1618-02	1.021	6.498	544.7
52	60.000	.50000-01	205.00	.3099-01	.3734-01	.3734-01	.9000	.1086-02	.1309-02	.8345	5.650	538.4
52	67.500	.20000	219.00	.2283-01	.2754-01	.2754-01	.9000	.8003-03	.9655-03	.6115	4.544	542.7
52	96.500	.20000	1220.0	.1849-01	.2229-01	.2229-01	.9000	.6481-03	.7815-03	.4962	3.571	541.1
51	114.00	.40000	388.00	.1621-01	.1956-01	.1956-01	.9000	.5670-03	.6844-03	.4275	3.080	538.8
51	114.00	.50000	390.00	.2324-01	.2805-01	.2805-01	.9000	.8129-03	.9812-03	.6126	3.800	539.1
51	114.00	.70000	394.00	.9239-02	.1114-01	.1114-01	.9000	.3232-03	.3895-03	.2452	1.615	533.8
51	157.50	.40000	223.00	.3581-02	.4315-02	.4315-02	.9000	.1253-03	.1509-03	.9513-01	.6268	533.1
51	157.50	.50000	225.00	.2725-02	.3285-02	.3285-02	.9000	.9533-04	.1149-03	.7235-01	.4765	533.8
51	157.50	.70000	229.00	.5877-02	.7077-02	.7077-02	.9000	.2056-03	.2475-03	.1567	1.172	530.4
51	157.50	.80000	231.00	.2975-02	.3580-02	.3580-02	.9000	.1041-03	.1252-03	.7952-01	.5580	528.4
51	180.00	.40000	182.00	.7852-02	.9469-02	.9469-02	.9000	.2746-03	.3312-03	.2079	1.789	535.8
51	180.00	.50000	184.00	.7919-02	.9548-02	.9548-02	.9000	.2770-03	.3340-03	.2099	1.879	535.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 48

OH84B 60-0 FUSELAGE

(RHUA08)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. A /SEC	TW DEG. A
51	180.00	.60000	186.00	.5304-02	.6392-02	.6392-02	.9000	.1855-03	.2236-03	.1410	1.263	533.0
51	180.00	.70000	188.00	.6918-02	.8336-02	.8336-02	.9000	.2420-03	.2916-03	.1840	1.649	532.4
51	180.00	.80000	190.00	.2209-02	.2659-02	.2659-02	.9000	.7726-04	.9301-04	.5895-01	.5752	529.6
51	315.00	.40000	234.00	.1269-02	.1529-02	.1529-02	.9000	.4440-04	.5349-04	.3377-01	.2523	532.0
51	315.00	.50000	236.00	.2187-02	.2634-02	.2634-02	.9000	.7650-04	.9215-04	.5822-01	.3626	531.5
51	315.00	.70000	240.00	.2455-02	.2956-02	.2956-02	.9000	.8587-04	.1034-03	.6548-01	.4897	530.1
51	315.00	.80000	242.00	.2222-02	.2675-02	.2675-02	.9000	.7774-04	.9356-04	.5941-01	.4169	528.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 48

OH84B 60-0 FUSELAGE

(R4UA10)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
55	2.000	7.980	29.95	2.036	435.1	1303.	94.84	.4530-01	2.019	3810.	.1289-02	.7631-07
56	1.998	7.980	29.94	2.039	435.1	1304.	94.91	.4530-01	2.019	3811.	.1288-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
55	.3505-01	.2870-01
56	.3505-01	.2872-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
55	.00000	.00000	1.0000	.5846	.7256	.6164	.9735	.2049-01	.2160-01	13.74	73.25	632.2
55	.00000	.50000-02	2.0000	.5414	.6778	.5560	.9870	.1898-01	.1949-01	12.28	80.96	655.4
55	.00000	.10000-01	3.0000	.4630	.5751	.4800	.9818	.1623-01	.1682-01	10.84	70.00	634.5
55	.00000	.20000-01	4.0000	.3184	.3895	.3429	.9608	.1116-01	.1202-01	7.957	43.32	589.6
56	.00000	.30000-01	5.0000	.2340	.2852	.2570	.9502	.8204-02	.9008-02	5.961	32.65	577.1
56	.00000	.40000-01	6.0000	.2132	.2597	.2373	.9433	.7474-02	.8318-02	5.442	29.84	575.5
56	.00000	.50000-01	7.0000	.1778	.2168	.2000	.9382	.6233-02	.7012-02	4.518	29.87	578.9
56	.00000	.60000-01	8.0000	.1801	.2195	.2041	.9346	.6313-02	.7153-02	4.582	28.68	577.8
56	.00000	.70000-01	9.0000	.1519	.1850	.1733	.9309	.5323-02	.6075-02	3.874	26.55	575.8
56	.00000	.80000-01	10.000	.1237	.1505	.1419	.9281	.4336-02	.4973-02	3.177	21.82	571.1
56	.00000	.90000-01	11.000	.1155	.1402	.1328	.9261	.4048-02	.4656-02	2.990	18.83	565.2
56	.00000	.10000+00	12.000	.1042	.1265	.1202	.9242	.3653-02	.4215-02	2.706	16.14	562.8
56	.00000	.12000	13.000	.9128-01	.1106	.1058	.9215	.3200-02	.3709-02	2.383	13.17	559.0
56	.00000	.13000	14.000	.8770-01	.1063	.1018	.9207	.3074-02	.3570-02	2.288	13.31	559.3
56	.00000	.14000	15.000	.8518-01	.1033	.9907-01	.9200	.2986-02	.3473-02	2.220	14.02	560.2
56	.00000	.15000	16.000	.8785-01	.1066	.1023	.9196	.3079-02	.3586-02	2.284	14.00	562.1
56	.00000	.16000	17.000	.8665-01	.1051	.1010	.9190	.3037-02	.3542-02	2.255	13.83	561.4
56	.00000	.17000	18.000	.8536-01	.1036	.9968-01	.9183	.2992-02	.3494-02	2.217	13.98	562.6
56	.00000	.18000	19.000	.8431-01	.1023	.9853-01	.9179	.2955-02	.3454-02	2.192	13.83	562.0

OH84B 60-0 FUSELAGE

(R4UA10)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(10) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
56	.00000	.20000	21.000	.8204-01	.9948-01	.9609-01	.9166	.2876-02	.3368-02	2.138	13.50	560.1
56	.00000	.25000	23.000	.7332-01	.8894-01	.8629-01	.9144	.2570-02	.3025-02	1.907	12.03	561.6
56	.00000	.30000	24.000	.6882-01	.8347-01	.8098-01	.9144	.2412-02	.2839-02	1.791	11.30	561.2
56	.00000	.35000	25.000	.7006-01	.8500-01	.8246-01	.9144	.2456-02	.2891-02	1.822	11.49	561.9
56	.00000	.40000	26.000	.6788-01	.8240-01	.7993-01	.9144	.2379-02	.2802-02	1.759	11.41	564.2
56	.00000	.45000	1027.0	.6031-01	.7324-01	.7104-01	.9144	.2114-02	.2490-02	1.561	10.42	565.4
56	.00000	.50000	1028.0	.5657-01	.6866-01	.6660-01	.9144	.1983-02	.2335-02	1.468	10.12	563.2
56	.00000	.55000	1029.0	.4226-01	.5129-01	.4976-01	.9144	.1482-02	.1744-02	1.097	8.072	563.0
56	.00000	.60000	1030.0	.5151-01	.6259-01	.6071-01	.9144	.1806-02	.2128-02	1.330	9.758	567.4
56	.00000	.65000	1031.0	.4464-01	.5424-01	.5261-01	.9144	.1565-02	.1844-02	1.153	8.461	567.1
56	.00000	.70000	1032.0	.4444-01	.5387-01	.5227-01	.9144	.1558-02	.1832-02	1.160	8.848	558.8
56	.00000	.75000	1033.0	.4112-01	.4984-01	.4836-01	.9144	.1442-02	.1695-02	1.074	7.919	558.5
56	.00000	.80000	1034.0	.4460-01	.5402-01	.5242-01	.9144	.1563-02	.1838-02	1.169	8.625	556.2
56	.00000	.85000	1035.0	.4318-01	.5227-01	.5129-01	.9091	.1514-02	.1798-02	1.134	8.666	554.4
56	10.000	.10000+00	45.000	.1131	.1372	.1372	.9000	.3963-02	.4809-02	2.936	18.00	562.8
56	14.000	.50000-01	44.000	.1704	.2074	.2074	.9000	.5973-02	.7270-02	4.364	29.94	573.1
56	20.000	.10000+00	207.00	.1556	.1893	.1893	.9000	.5455-02	.6634-02	4.002	23.16	570.0
56	20.000	.15000	211.00	.9604-01	.1165	.1165	.9000	.3367-02	.4083-02	2.502	15.79	560.5
56	22.000	.50000-01	202.00	.2078	.2528	.2528	.9000	.7286-02	.8862-02	5.342	29.36	570.4
56	24.000	.20000	48.000	.6726-01	.8163-01	.8163-01	.9000	.2358-02	.2861-02	1.747	15.42	562.7
56	24.500	.10000+00	208.00	.1597	.1943	.1943	.9000	.5600-02	.6813-02	4.099	25.73	571.6
56	25.500	.15000	212.00	.1004	.1221	.1221	.9000	.3519-02	.4279-02	2.584	22.73	569.5
56	31.500	.20000	215.00	.6969-01	.8467-01	.8467-01	.9000	.2443-02	.2968-02	1.800	18.02	566.8
56	35.000	.50000-01	203.00	.1532	.1858	.1858	.9000	.5369-02	.6513-02	3.983	25.13	561.8
56	35.000	.20000	216.00	.7351-01	.8930-01	.8930-01	.9000	.2577-02	.3131-02	1.899	19.01	566.6
56	39.000	.10000+00	209.00	.8116-01	.9816-01	.9816-01	.9000	.2845-02	.3441-02	2.142	13.59	550.8
56	40.000	.15000	213.00	.1245	.1515	.1515	.9000	.4363-02	.5311-02	3.185	23.30	573.6
56	40.000	.20000	217.00	.7123-01	.8683-01	.8683-01	.9000	.2497-02	.3037-02	1.832	20.14	570.2
56	42.500	.50000-01	204.00	.7587-01	.9171-01	.9171-01	.9000	.2660-02	.3215-02	2.008	13.53	548.6
56	45.500	.15000	214.00	.6771-01	.8183-01	.8183-01	.9000	.2374-02	.2868-02	1.794	10.50	547.7
56	51.000	.20000	218.00	.3510-01	.4237-01	.4237-01	.9000	.1231-02	.1485-02	.9860	5.961	543.1
56	60.000	.50000-01	205.00	.2945-01	.3550-01	.3550-01	.9000	.1033-02	.1244-02	.7903	5.351	538.3
56	67.500	.20000	219.00	.2093-01	.2525-01	.2525-01	.9000	.7337-03	.8850-03	.5595	4.161	541.1
56	96.500	.20000	1220.0	.1682-01	.2028-01	.2028-01	.9000	.5895-03	.7108-03	.4503	3.243	539.8
55	114.00	.40000	388.00	.1482-01	.1786-01	.1786-01	.9000	.5194-03	.6259-03	.3975	2.867	537.3
55	114.00	.50000	390.00	.1753-01	.2112-01	.2112-01	.9000	.6145-03	.7404-03	.4706	2.923	536.9
55	114.00	.70000	394.00	.6410-02	.7714-02	.7714-02	.9000	.2247-03	.2704-03	.1732	1.142	531.8
55	157.50	.40000	223.00	.4140-02	.4982-02	.4982-02	.9000	.1451-03	.1746-03	.1118	.7365	532.5
55	157.50	.50000	225.00	.3203-02	.3857-02	.3857-02	.9000	.1123-03	.1352-03	.8630-01	.5584	534.0
55	157.50	.70000	229.00	.4909-02	.5904-02	.5904-02	.9000	.1721-03	.2069-03	.1331	.9955	529.4
55	157.50	.80000	231.00	.3460-02	.4159-02	.4159-02	.9000	.1213-03	.1458-03	.9392-01	.6592	528.2
55	180.00	.40000	182.00	.7563-02	.9108-02	.9108-02	.9000	.2651-03	.3192-03	.2036	1.753	534.6
55	180.00	.50000	184.00	.7989-02	.9619-02	.9619-02	.9000	.2800-03	.3372-03	.2152	1.927	534.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 48

OH84B 60-0 FUSELAGE

(R4UA10)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
55	180.00	.60000	186.00	.5263-02	.6334-02	.6334-02	.9000	.1845-03	.2220-03	.1422	1.275	531.9
55	180.00	.70000	188.00	.8860-02	.1066-01	.1066-01	.9000	.3105-03	.3737-03	.2394	2.146	531.8
55	180.00	.80000	190.00	.4536-02	.5456-02	.5456-02	.9000	.1590-03	.1912-03	.1229	1.199	529.8
55	315.00	.40000	234.00	.1106-02	.1331-02	.1331-02	.9000	.3877-04	.4665-04	.2992-01	.2237	531.0
55	315.00	.50000	236.00	.2281-02	.2744-02	.2744-02	.9000	.7995-04	.9618-04	.6170-01	.3844	530.9
55	315.00	.70000	240.00	.2272-02	.2732-02	.2732-02	.9000	.7962-04	.9575-04	.6198-01	.4607	529.3
55	315.00	.80000	242.00	.1875-02	.2254-02	.2254-02	.9000	.6573-04	.7902-04	.5091-01	.3573	528.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 40

OH84B 60-0 FUSELAGE

(R4U111)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
165	2.002	7.990	34.98	-4.052	435.0	1302.	94.76	.4529-01	2.019	3808.	.1290-02	.7626-07
166	2.007	7.980	34.98	-4.060	435.1	1300.	94.62	.4530-01	2.019	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
165	.3504-01	.2869-01
166	.3504-01	.2866-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
165	.00000	.00000	1.0000	.5096	.6413	.5495	.9647	.1786-01	.1926-01	11.32	59.33	667.9
165	.00000	.50000-02	2.0000	.4972	.8370	.5118	.9870	.1742-01	.1793-01	10.33	66.38	708.8
165	.00000	.10000-01	3.0000	.4546	.5769	.4675	.9870	.1593-01	.1638-01	9.787	61.61	687.4
165	.00000	.20000-01	4.0000	.3512	.4357	.3729	.9700	.1231-01	.1307-01	8.256	44.05	630.8
166	.00000	.30000-01	5.0000	.2564	.3141	.2766	.9602	.8982-02	.9690-02	6.352	34.54	592.4
166	.00000	.40000-01	6.0000	.2311	.2828	.2525	.9537	.8098-02	.8845-02	5.763	31.40	588.0
166	.00000	.50000-01	7.0000	.1946	.2384	.2148	.9488	.6817-02	.7525-02	4.817	31.73	593.1
166	.00000	.60000-01	8.0000	.2036	.2496	.2264	.9453	.7134-02	.7934-02	5.030	31.22	594.6
166	.00000	.70000-01	9.0000	.1735	.2126	.1943	.9417	.6079-02	.6809-02	4.296	29.19	592.9
166	.00000	.80000-01	10.0000	.1420	.1737	.1598	.9389	.4975-02	.5599-02	3.547	24.17	586.8
166	.00000	.90000-01	11.0000	.1343	.1639	.1516	.9370	.4706-02	.5310-02	3.385	21.16	580.4
166	.00000	.10000+00	12.0000	.1235	.1506	.1398	.9351	.4326-02	.4899-02	3.123	18.49	577.7
166	.00000	.12000	13.0000	.1097	.1336	.1248	.9325	.3843-02	.4371-02	2.790	15.31	573.6
166	.00000	.13000	14.0000	.1065	.1297	.1214	.9316	.3731-02	.4252-02	2.706	15.62	574.4
166	.00000	.14000	15.0000	.1010	.1231	.1153	.9310	.3540-02	.4041-02	2.562	16.05	576.0
166	.00000	.15000	16.0000	.1051	.1281	.1200	.9305	.3681-02	.4206-02	2.664	16.23	575.9
166	.00000	.16000	17.0000	.1028	.1253	.1176	.9299	.3602-02	.4120-02	2.608	15.89	575.5
166	.00000	.17000	18.0000	.1016	.1239	.1164	.9292	.3560-02	.4079-02	2.573	16.11	576.8
166	.00000	.18000	19.0000	.9968-01	.1215	.1143	.9288	.3492-02	.4005-02	2.527	15.83	576.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA11)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(10) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
166	.00000	.20000	21.000	.9852-01	.1201	.1133	.9275	.3452-02	.3968-02	2.500	15.67	575.3
166	.00000	.25000	23.000	.8925-01	.1088	.1031	.9253	.3127-02	.3612-02	2.259	14.14	577.3
166	.00000	.30000	24.000	.8400-01	.1024	.9704-01	.9253	.2943-02	.3400-02	2.126	13.31	577.2
166	.00000	.35000	25.000	.8644-01	.1054	.9988-01	.9253	.3029-02	.3499-02	2.185	13.67	578.1
166	.00000	.40000	26.000	.8367-01	.1021	.9673-01	.9253	.2932-02	.3389-02	2.109	13.57	580.4
166	.00000	.45000	1027.0	.7295-01	.8905-01	.8434-01	.9253	.2556-02	.2955-02	1.837	12.17	581.0
166	.00000	.50000	1028.0	.6728-01	.8209-01	.7776-01	.9253	.2357-02	.2724-02	1.698	11.62	579.3
166	.00000	.55000	1029.0	.6657-01	.8134-01	.7701-01	.9253	.2332-02	.2698-02	1.669	12.15	584.0
166	.00000	.60000	1030.0	.6242-01	.7624-01	.7219-01	.9253	.2187-02	.2529-02	1.568	11.43	582.5
166	.00000	.65000	1031.0	.5418-01	.6617-01	.6266-01	.9253	.1898-02	.2196-02	1.362	9.921	582.3
166	.00000	.70000	1032.0	.5510-01	.6712-01	.6361-01	.9253	.1930-02	.2229-02	1.400	10.59	574.4
166	.00000	.75000	1033.0	.5149-01	.6271-01	.5943-01	.9253	.1804-02	.2082-02	1.311	9.592	573.2
166	.00000	.80000	1034.0	.5986-01	.7287-01	.6907-01	.9253	.2097-02	.2420-02	1.526	11.18	571.9
166	.00000	.85000	1035.0	.6185-01	.7526-01	.7215-01	.9199	.2167-02	.2528-02	1.580	11.98	570.5
166	10.000	.10000+00	45.000	.1379	.1682	.1682	.9000	.4830-02	.5893-02	3.481	21.17	579.0
166	14.000	.50000-01	44.000	.2005	.2454	.2454	.9000	.7026-02	.8599-02	4.992	33.98	589.1
166	20.000	.10000+00	207.00	.1925	.2357	.2357	.9000	.6746-02	.8257-02	4.789	27.44	589.7
166	20.000	.15000	211.00	.1224	.1493	.1493	.9000	.4289-02	.5230-02	3.098	19.39	577.4
166	22.000	.50000-01	202.00	.2499	.3059	.3059	.9000	.8755-02	.1072-01	6.213	33.82	590.0
166	24.000	.20000	48.000	.8909-01	.1088	.1088	.9000	.3122-02	.3811-02	2.242	19.61	581.5
166	24.500	.10000+00	208.00	.2025	.2482	.2482	.9000	.7095-02	.8694-02	5.012	31.13	593.2
166	25.500	.15000	212.00	.1351	.1656	.1656	.9000	.4733-02	.5801-02	3.340	29.04	593.9
166	31.500	.20000	215.00	.9535-01	.1167	.1167	.9000	.3341-02	.4089-02	2.372	23.48	589.5
166	35.000	.50000-01	203.00	.1939	.2368	.2368	.9000	.6795-02	.8296-02	4.879	30.47	581.7
166	35.000	.20000	216.00	.1023	.1253	.1253	.9000	.3586-02	.4390-02	2.544	25.17	590.2
166	39.000	.10000+00	209.00	.1120	.1362	.1362	.9000	.3924-02	.4770-02	2.873	18.07	567.5
166	40.000	.15000	213.00	.1737	.2133	.2133	.9000	.6085-02	.7475-02	4.252	30.70	600.8
166	40.000	.20000	217.00	.1000	.1227	.1227	.9000	.3504-02	.4299-02	2.462	26.70	597.1
166	42.500	.50000-01	204.00	.9468-01	.1149	.1149	.9000	.3317-02	.4025-02	2.451	16.41	560.7
166	45.500	.15000	214.00	.1026	.1248	.1248	.9000	.3596-02	.4371-02	2.637	15.28	566.5
166	51.000	.20000	218.00	.5643-01	.6842-01	.6842-01	.9000	.1977-02	.2397-02	1.466	9.263	558.3
166	60.000	.50000-01	205.00	.3126-01	.3777-01	.3777-01	.9000	.1095-02	.1323-02	.8267	5.578	544.9
166	67.500	.20000	219.00	.3183-01	.3858-01	.3858-01	.9000	.1115-02	.1352-02	.8291	6.118	556.4
166	96.500	.20000	1220.0	.2576-01	.3118-01	.3118-01	.9000	.9025-03	.1093-02	.6742	4.824	552.7
165	114.00	.40000	388.00	.2071-01	.2505-01	.2505-01	.9000	.7256-03	.8780-03	.5443	3.896	551.6
165	114.00	.50000	390.00	.2575-01	.3114-01	.3114-01	.9000	.9025-03	.1091-02	.6794	4.195	548.8
165	114.00	.70000	394.00	.3896-01	.4714-01	.4714-01	.9000	.1365-02	.1652-02	1.023	6.678	552.1
165	157.50	.40000	223.00	.3028-02	.3650-02	.3650-02	.9000	.1061-03	.1279-03	.8198-01	.5330	537.5
165	157.50	.50000	225.00	.5625-02	.6779-02	.6779-02	.9000	.1971-03	.2376-03	.1507	.9907	537.2
165	157.50	.70000	229.00	.8211-02	.9897-02	.9897-02	.9000	.2877-03	.3468-03	.2199	1.639	537.4
165	157.50	.80000	231.00	.6540-02	.7879-02	.7879-02	.9000	.2292-03	.2761-03	.1756	1.228	535.3
165	180.00	.40000	182.00	.4047-02	.4881-02	.4881-02	.9000	.1418-03	.1710-03	.1081	.9288	539.2
165	180.00	.50000	184.00	.1892-02	.2280-02	.2280-02	.9000	.6630-04	.7990-04	.5069-01	.4533	537.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA11)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R* TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
165	180.00	.60000	186.00	.2187-02	.2636-02	.2636-02	.9000	.7665-04	.9236-04	.5865-01	.5247	536.5
165	180.00	.70000	188.00	.2627-02	.3166-02	.3166-02	.9000	.9207-04	.1109-03	.7048-01	.6305	536.2
165	180.00	.80000	190.00	.3447-02	.4152-02	.4152-02	.9000	.1208-03	.1455-03	.9252-01	.9000	535.6
165	315.00	.40000	234.00	.1774-02	.2139-02	.2139-02	.9000	.6218-04	.7495-04	.4750-01	.3539	537.8
165	315.00	.50000	236.00	.2473-02	.2980-02	.2980-02	.9000	.8666-04	.1044-03	.6625-01	.4114	537.2
165	315.00	.70000	240.00	.5168-02	.6228-02	.6228-02	.9000	.1111-03	.2182-03	.1386	1.033	536.4
165	315.00	.80000	242.00	.5903-02	.7110-02	.7110-02	.9000	.2069-03	.2492-03	.1586	1.109	534.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA11)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
108	2.984	7.990	34.98	-4.050	670.1	1328.	96.43	.6920-01	3.092	3846.	.1937-02	.7760-07
109	3.001	7.990	34.99	-4.047	671.6	1325.	96.21	.6936-01	3.099	3842.	.1946-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
108	.4352-01	.2346-01
109	.4355-01	.2340-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
108	.00000	.00000	1.0000	.5217	.6504	.5609	.9647	.2270-01	.2441-01	15.23	80.24	656.9
108	.00000	.50000-02	2.0000	.5238	.6645	.5386	.9870	.2280-01	.2344-01	14.29	92.18	700.8
108	.00000	.10000-01	3.0000	.4694	.5898	.4822	.9870	.2043-01	.2099-01	13.29	84.05	677.2
108	.00000	.20000-01	4.0000	.3472	.4272	.3678	.9700	.1511-01	.1601-01	10.70	57.43	619.2
109	.00000	.30000-01	5.0000	.2587	.3173	.2792	.9603	.1127-01	.1216-01	8.090	43.68	606.7
109	.00000	.40000-01	6.0000	.2325	.2846	.2540	.9538	.1013-01	.1106-01	7.332	39.70	600.6
109	.00000	.50000-01	7.0000	.1946	.2387	.2149	.9489	.8474-02	.9359-02	6.069	39.68	608.5
109	.00000	.60000-01	8.0000	.2012	.2469	.2239	.9453	.8765-02	.9751-02	6.276	38.69	608.6
109	.00000	.70000-01	9.0000	.1716	.2105	.1923	.9417	.7474-02	.8375-02	5.362	36.17	607.3
109	.00000	.80000-01	10.000	.1420	.1738	.1599	.9390	.6186-02	.6964-02	4.481	30.33	600.4
109	.00000	.90000-01	11.000	.1333	.1627	.1504	.9370	.5805-02	.6550-02	4.254	26.44	591.8
109	.00000	.10000+00	12.000	.1232	.1502	.1394	.9351	.5364-02	.6073-02	3.953	23.29	587.8
109	.00000	.12000	13.000	.1076	.1309	.1222	.9325	.4684-02	.5324-02	3.485	19.06	580.6
109	.00000	.13000	14.000	.1032	.1256	.1176	.9316	.4496-02	.5120-02	3.336	19.19	582.5
109	.00000	.14000	15.000	.1001	.1220	.1143	.9310	.4362-02	.4978-02	3.220	20.07	586.4
109	.00000	.15000	16.000	.1043	.1272	.1192	.9305	.4544-02	.5192-02	3.353	20.31	586.7
109	.00000	.16000	17.000	.1026	.1250	.1174	.9299	.4468-02	.5112-02	3.297	19.97	586.8
109	.00000	.17000	18.000	.9995-01	.1219	.1145	.9292	.4353-02	.4988-02	3.203	19.94	588.8
109	.00000	.18000	19.000	.9848-01	.1201	.1129	.9288	.4289-02	.4919-02	3.160	19.68	587.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA11)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
109	.00000	.20000	21.000	.9731-01	.1186	.1119	.9275	.4238-02	.4873-02	3.126	19.47	597.2
109	.00000	.25000	23.000	.8610-01	.1050	.9949-01	.9253	.3750-02	.4333-02	2.756	17.15	589.6
109	.00000	.30000	24.000	.8237-01	.1005	.9520-01	.9253	.3588-02	.4146-02	2.633	16.37	590.7
109	.00000	.35000	25.000	.8389-01	.1025	.9703-01	.9253	.3654-02	.4226-02	2.668	16.56	594.3
109	.00000	.40000	26.000	.8173-01	.1000	.9465-01	.9253	.3560-02	.4122-02	2.580	16.44	600.0
109	.00000	.45000	1027.0	.7018-01	.8591-01	.8129-01	.9253	.3057-02	.3541-02	2.212	14.52	600.9
109	.00000	.50000	1028.0	.6648-01	.8120-01	.7689-01	.9253	.2895-02	.3349-02	2.116	14.37	593.9
109	.00000	.55000	1029.0	.6552-01	.8036-01	.7600-01	.9253	.2854-02	.3310-02	2.048	14.74	607.1
109	.00000	.60000	1030.0	.6339-01	.7770-01	.7353-01	.9253	.2761-02	.3201-02	1.985	14.29	605.7
109	.00000	.65000	1031.0	.5487-01	.6725-01	.6362-01	.9253	.2390-02	.2771-02	1.720	12.39	605.0
109	.00000	.70000	1032.0	.6257-01	.7661-01	.7249-01	.9253	.2725-02	.3157-02	1.970	14.70	601.8
109	.00000	.75000	1033.0	.6830-01	.8368-01	.7916-01	.9253	.2974-02	.3448-02	2.143	15.44	604.2
109	.00000	.80000	1034.0	.9236-01	.1134	.1072	.9253	.4022-02	.4668-02	2.877	20.68	609.5
109	.00000	.85000	1035.0	.1085	.1333	.1275	.9199	.4725-02	.5553-02	3.364	24.98	612.7
109	10.000	.10000+00	45.000	.1385	.1690	.1690	.9000	.6031-02	.7359-02	4.428	26.78	590.4
109	14.000	.50000-01	44.000	.2010	.2465	.2465	.9000	.8754-02	.1074-01	6.281	42.38	607.1
109	20.000	.10000+00	207.00	.1917	.2348	.2348	.9000	.8349-02	.1023-01	6.024	34.29	603.1
109	20.000	.15000	211.00	.1207	.1472	.1472	.9000	.5259-02	.6411-02	3.877	24.15	587.5
109	22.000	.50000-01	202.00	.2509	.3077	.3077	.9000	.1092-01	.1340-01	7.825	42.21	608.3
109	24.000	.20000	48.000	.8720-01	.1065	.1065	.9000	.3798-02	.4639-02	2.773	24.10	594.5
109	24.500	.10000+00	208.00	.2010	.2466	.2466	.9000	.8755-02	.1074-01	6.275	38.69	607.9
109	25.500	.15000	212.00	.1304	.1599	.1599	.9000	.5679-02	.6963-02	4.079	35.24	606.4
109	31.500	.20000	215.00	.9425-01	.1155	.1155	.9000	.4105-02	.5030-02	2.955	29.04	604.6
109	35.000	.50000-01	203.00	.1936	.2363	.2363	.9000	.8432-02	.1029-01	6.177	38.39	592.1
109	35.000	.20000	216.00	.1009	.1236	.1236	.9000	.4393-02	.5384-02	3.160	31.03	605.4
109	39.000	.10000+00	209.00	.1159	.1407	.1407	.9000	.5046-02	.6126-02	3.793	23.80	573.0
109	40.000	.15000	213.00	.1718	.2113	.2113	.9000	.7483-02	.9202-02	5.308	38.05	615.4
109	40.000	.20000	217.00	.9878-01	.1214	.1214	.9000	.4302-02	.5287-02	3.059	32.92	613.6
109	42.500	.50000-01	204.00	.9544-01	.1157	.1157	.9000	.4157-02	.5040-02	3.143	20.98	568.4
109	45.500	.15000	214.00	.1053	.1276	.1276	.9000	.4586-02	.5557-02	3.476	20.15	566.7
109	51.000	.20000	218.00	.5865-01	.7089-01	.7089-01	.9000	.2554-02	.3087-02	1.960	12.39	557.3
109	60.000	.50000-01	205.00	.3189-01	.3841-01	.3841-01	.9000	.1389-02	.1673-02	1.083	7.307	545.0
109	67.500	.20000	219.00	.3179-01	.3840-01	.3840-01	.9000	.1384-02	.1673-02	1.065	7.860	555.7
109	86.500	.20000	1220.0	.2556-01	.3085-01	.3085-01	.9000	.1113-02	.1343-02	.8610	6.165	551.3
108	114.00	.40000	388.00	.2188-01	.2638-01	.2638-01	.9000	.9523-03	.1148-02	.7418	5.319	548.7
108	114.00	.50000	390.00	.2885-01	.3476-01	.3476-01	.9000	.1256-02	.1513-02	.9798	6.053	547.3
108	114.00	.70000	394.00	.7708-01	.9323-01	.9323-01	.9000	.3355-02	.4057-02	2.573	16.71	560.8
108	157.50	.40000	223.00	.3876-02	.4657-02	.4657-02	.9000	.1687-03	.2027-03	.1336	.8789	535.9
108	157.50	.50000	225.00	.8357-02	.1005-01	.1005-01	.9000	.3637-03	.4374-03	.2867	1.883	539.4
108	157.50	.70000	229.00	.9078-02	.1090-01	.1090-01	.9000	.3951-03	.4746-03	.3131	2.336	535.2
108	157.50	.80000	231.00	.8719-02	.1047-01	.1047-01	.9000	.3794-03	.4557-03	.3011	2.107	534.2
108	180.00	.40000	182.00	.4685-02	.5631-02	.5631-02	.9000	.2039-03	.2451-03	.1612	1.388	537.2
108	180.00	.50000	184.00	.2481-02	.2980-02	.2980-02	.9000	.1080-03	.1297-03	.8553-01	.7658	535.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA11)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
108	180.00	.60000	186.00	.2466-02	.2962-02	.2962-02	.9000	.1073-03	.1289-03	.8504-01	.7613	535.2
108	180.00	.70000	188.00	.4358-02	.5235-02	.5235-02	.9000	.1897-03	.2278-03	.1504	1.346	534.9
108	180.00	.80000	190.00	.6634-02	.7969-02	.7969-02	.9000	.2887-03	.3468-03	.2289	2.228	534.8
108	315.00	.40000	234.00	.1716-02	.2062-02	.2062-02	.9000	.7469-04	.8972-04	.5918-01	.4415	535.2
108	315.00	.50000	236.00	.2556-02	.3070-02	.3070-02	.9000	.1112-03	.1336-03	.8821-01	.5485	534.6
108	315.00	.70000	240.00	.5560-02	.6679-02	.6679-02	.9000	.2420-03	.2907-03	.1919	1.432	534.7
108	315.00	.80000	242.00	.8243-02	.9900-02	.9900-02	.9000	.3588-03	.4309-03	.2846	1.991	534.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(RNUA11

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
142	3.684	8.000	35.01	-4.001	853.7	1353.	98.02	.8745-01	3.918	3883.	.2408-02	.7888-07
143	3.686	8.000	34.98	-4.043	854.1	1353.	98.02	.8749-01	3.919	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
142	.4914-01	.2108-01
143	.4915-01	.2108-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
142	.00000	.00000	1.0000	.5220	.6501	.5611	.9646	.2565-01	.2758-01	17.61	92.39	668.1
142	.00000	.50000-02	2.0000	.5304	.6732	.5455	.9870	.2607-01	.2681-01	16.63	106.6	714.8
142	.00000	.10000-01	3.0000	.4728	.5943	.4857	.9870	.2324-01	.2387-01	15.38	96.67	690.7
142	.00000	.20000-01	4.0000	.3474	.4273	.3680	.9700	.1707-01	.1808-01	12.35	65.93	629.3
143	.00000	.30000-01	5.0000	.2587	.3164	.2789	.9603	.1272-01	.1371-01	9.437	50.85	610.7
143	.00000	.40000-01	6.0000	.2317	.2827	.2528	.9538	.1139-01	.1243-01	8.528	46.11	603.8
143	.00000	.50000-01	7.0000	.1949	.2386	.2151	.9489	.9583-02	.1057-01	7.089	46.25	612.9
143	.00000	.60000-01	8.0000	.2030	.2484	.2256	.9453	.9979-02	.1109-01	7.382	45.41	612.9
143	.00000	.70000-01	9.0000	.1747	.2137	.1955	.9417	.8588-02	.9610-02	6.365	42.85	611.5
143	.00000	.80000-01	10.000	.1427	.1741	.1603	.9390	.7013-02	.7881-02	5.256	35.53	603.1
143	.00000	.90000-01	11.000	.1351	.1645	.1522	.9370	.6641-02	.7484-02	5.022	31.14	596.4
143	.00000	.10000+00	12.000	.1248	.1518	.1411	.9351	.6134-02	.6936-02	4.661	27.39	592.8
143	.00000	.12000	13.000	.1090	.1323	.1237	.9325	.5358-02	.6082-02	4.109	22.41	585.8
143	.00000	.13000	14.000	.1052	.1277	.1196	.9316	.5169-02	.5880-02	3.957	22.70	587.2
143	.00000	.14000	15.000	.1015	.1234	.1157	.9310	.4988-02	.5685-02	3.798	23.61	591.2
143	.00000	.15000	16.000	.1051	.1279	.1199	.9305	.5168-02	.5896-02	3.933	23.77	591.6
143	.00000	.16000	17.000	.1033	.1256	.1180	.9299	.5077-02	.5799-02	3.865	23.36	591.4
143	.00000	.17000	18.000	.1018	.1239	.1165	.9292	.5006-02	.5728-02	3.801	23.61	593.3
143	.00000	.18000	19.000	.9924-01	.1207	.1136	.9288	.4878-02	.5585-02	3.709	23.05	592.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA11)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO TAW/TO	H(10) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
143	.00000	.20000	21.000	.9799-01	.1191	.1125	.9275	.4817-02	.5528-02	3.671	22.83	590.4
143	.00000	.25000	23.000	.8753-01	.1065	.1010	.9253	.4303-02	.4963-02	3.268	20.30	593.2
143	.00000	.30000	24.000	.8382-01	.1020	.9669-01	.9253	.4120-02	.4753-02	3.127	19.42	593.7
143	.00000	.35000	25.000	.8608-01	.1048	.9935-01	.9253	.4231-02	.4884-02	3.200	19.84	596.5
143	.00000	.40000	26.000	.8316-01	.1014	.9607-01	.9253	.4088-02	.4722-02	3.071	19.55	601.4
143	.00000	.45000	1027.0	.7267-01	.8866-01	.8398-01	.9253	.3572-02	.4128-02	2.678	17.56	602.9
143	.00000	.50000	1028.0	.7402-01	.9008-01	.8538-01	.9253	.3638-02	.4197-02	2.761	18.75	593.9
143	.00000	.55000	1029.0	.6853-01	.8377-01	.7930-01	.9253	.3368-02	.3898-02	2.504	18.00	609.3
143	.00000	.60000	1030.0	.6670-01	.8150-01	.7716-01	.9253	.3278-02	.3793-02	2.442	17.57	607.9
143	.00000	.65000	1031.0	.6432-01	.7864-01	.7445-01	.9253	.3162-02	.3659-02	2.349	16.88	609.8
143	.00000	.70000	1032.0	.7850-01	.9595-01	.9083-01	.9253	.3858-02	.4465-02	2.869	21.34	609.0
143	.00000	.75000	1033.0	.9903-01	.1213	.1148	.9253	.4868-02	.5643-02	3.580	25.63	617.3
143	.00000	.80000	1034.0	.1356	.1666	.1575	.9253	.6667-02	.7741-02	4.853	34.62	624.8
143	.00000	.85000	1035.0	.1590	.1957	.1871	.9199	.7817-02	.9196-02	5.650	41.60	630.0
143	10.000	.00000+00	45.000	.1397	.1701	.1701	.9000	.6867-02	.8360-02	5.201	31.37	595.3
143	14.000	.50000-01	44.000	.2021	.2471	.2471	.9000	.9934-02	.1215-01	7.379	49.72	609.8
143	20.000	.10000+00	207.00	.1945	.2378	.2378	.9000	.8562-02	.1169-01	7.111	40.36	609.0
143	20.000	.15000	211.00	.1215	.1478	.1478	.9000	.5972-02	.7266-02	4.536	28.17	593.1
143	22.000	.50000-01	202.00	.2524	.3088	.3088	.9000	.1241-01	.1518-01	9.198	49.54	611.4
143	24.000	.20000	48.000	.8921-01	.1088	.1088	.9000	.4385-02	.5346-02	3.299	28.59	600.3
143	24.500	.10000+00	208.00	.2040	.2498	.2498	.9000	.1003-01	.1228-01	7.407	45.53	614.1
143	25.500	.15000	212.00	.1332	.1629	.1629	.9000	.6547-02	.8009-02	4.852	41.81	611.6
143	31.500	.20000	215.00	.9553-01	.1168	.1168	.9000	.4696-02	.5741-02	3.490	34.21	609.5
143	35.000	.50000-01	203.00	.1938	.2360	.2360	.9000	.9524-02	.1160-01	7.192	44.58	597.5
143	35.000	.20000	216.00	.1024	.1253	.1253	.9000	.5035-02	.6157-02	3.738	36.63	610.3
143	39.000	.10000+00	209.00	.1146	.1389	.1389	.9000	.5632-02	.6826-02	4.359	27.27	578.8
143	40.000	.15000	213.00	.1742	.2139	.2139	.9000	.8562-02	.1052-01	6.234	44.48	624.6
143	40.000	.20000	217.00	.9984-01	.1224	.1224	.9000	.4908-02	.6017-02	3.600	38.64	619.1
143	42.500	.50000-01	204.00	.9536-01	.1153	.1153	.9000	.4687-02	.5667-02	3.668	24.44	570.2
143	45.500	.15000	214.00	.1036	.1255	.1255	.9000	.5095-02	.6167-02	3.963	22.88	574.8
143	51.000	.20000	218.00	.5751-01	.6943-01	.6943-01	.9000	.2827-02	.3413-02	2.228	14.03	564.7
143	60.000	.50000-01	205.00	.3032-01	.3642-01	.3642-01	.9000	.1490-02	.1790-02	1.204	8.125	544.9
143	67.500	.20000	219.00	.3181-01	.3837-01	.3837-01	.9000	.1564-02	.1886-02	1.237	9.105	561.6
143	96.500	.20000	1220.0	.2598-01	.3131-01	.3131-01	.9000	.1277-02	.1539-02	1.015	7.248	557.5
142	114.00	.40000	388.00	.2151-01	.2591-01	.2591-01	.9000	.1057-02	.1273-02	.6438	6.031	554.6
142	114.00	.50000	390.00	.3422-01	.4121-01	.4121-01	.9000	.1682-02	.2025-02	1.343	8.265	554.4
142	114.00	.70000	394.00	.7422-01	.8961-01	.8961-01	.9000	.3648-02	.4404-02	2.874	18.63	564.8
142	157.50	.40000	223.00	.3675-02	.4409-02	.4409-02	.9000	.1806-03	.2167-03	.1467	.9633	540.2
142	157.50	.50000	225.00	.1274-01	.1530-01	.1530-01	.9000	.6263-03	.7517-03	.5078	3.331	541.9
142	157.50	.70000	229.00	.9013-02	.1081-01	.1081-01	.9000	.4429-03	.5314-03	.3598	2.677	540.3
142	157.50	.80000	231.00	.7519-02	.9017-02	.9017-02	.9000	.3695-03	.4431-03	.3010	2.102	538.1
142	180.00	.40000	182.00	.5657-02	.6791-02	.6791-02	.9000	.2780-03	.3337-03	.2253	1.932	542.4
142	180.00	.50000	184.00	.2942-02	.3529-02	.3529-02	.9000	.1446-03	.1734-03	.1175	1.049	540.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA11)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
142	180.00	.60000	186.00	.2832-02	.3398-02	.3398-02	.9000	.1392-03	.1670-03	.1132	1.011	539.3
142	180.00	.70000	188.00	.5070-02	.6083-02	.6083-02	.9000	.2491-03	.2989-03	.2023	1.806	540.5
142	180.00	.80000	190.00	.6121-02	.7343-02	.7343-02	.9000	.3008-03	.3639-03	.2446	2.375	539.5
142	315.00	.40000	234.00	.1773-02	.2127-02	.2127-02	.9000	.8715-04	.1046-03	.7084-01	.5271	539.9
142	315.00	.50000	236.00	.2716-02	.3258-02	.3258-02	.9000	.1335-03	.1601-03	.1085	.6730	539.7
142	315.00	.70000	240.00	.5390-02	.6466-02	.6466-02	.9000	.2649-03	.3177-03	.2154	1.603	539.5
142	315.00	.80000	242.00	.1004-01	.1204-01	.1204-01	.9000	.4934-03	.5918-03	.4012	2.800	539.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 58

OH84B 60-0 FUSELAGE

(R4UA12)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
162	2.007	7.980	35.00	-1.998	435.0	1300.	94.62	.4529-01	2.019	3805.	.1292-02	.7614-07
163	2.006	7.980	35.01	-1.994	434.8	1300.	94.62	.4527-01	2.018	3805.	.1291-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
162	.3503-01	.2867-01
163	.3503-01	.2867-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
162	.00000	.00000	1.0000	.5241	.6503	.5627	.9646	.1836-01	.1971-01	12.29	65.62	630.1
162	.00000	.50000-02	2.0000	.5278	.6633	.5422	.9870	.1849-01	.1900-01	11.77	77.28	663.2
162	.00000	.10000-01	3.0000	.4720	.5889	.4845	.9870	.1654-01	.1697-01	10.82	69.53	645.0
162	.00000	.20000-01	4.0000	.3429	.4207	.3630	.9700	.1201-01	.1272-01	8.449	45.84	596.4
163	.00000	.30000-01	5.0000	.2572	.3147	.2773	.9603	.9007-02	.9712-02	6.405	34.89	588.5
163	.00000	.40000-01	6.0000	.2324	.2840	.2537	.9538	.8141-02	.8887-02	5.825	31.80	584.1
163	.00000	.50000-01	7.0000	.1966	.2406	.2168	.9489	.6884-02	.7594-02	4.891	32.28	589.2
163	.00000	.60000-01	8.0000	.2036	.2493	.2263	.9454	.7132-02	.7926-02	5.057	31.45	590.6
163	.00000	.70000-01	9.0000	.1733	.2120	.1939	.9418	.6069-02	.6792-02	4.313	29.36	588.9
163	.00000	.80000-01	10.0000	.1423	.1739	.1600	.9390	.4985-02	.5605-02	3.572	24.39	583.0
163	.00000	.90000-01	11.0000	.1339	.1632	.1509	.9371	.4688-02	.5286-02	3.390	21.23	576.6
163	.00000	.10000+00	12.0000	.1234	.1503	.1396	.9351	.4321-02	.4889-02	3.135	18.59	574.1
163	.00000	.12000	13.0000	.1078	.1312	.1225	.9325	.3776-02	.4291-02	2.754	15.14	570.1
163	.00000	.13000	14.0000	.1058	.1287	.1204	.9317	.3704-02	.4218-02	2.700	15.62	570.8
163	.00000	.14000	15.0000	.1008	.1227	.1150	.9310	.3530-02	.4027-02	2.567	16.11	572.6
163	.00000	.15000	16.0000	.1043	.1270	.1190	.9306	.3652-02	.4169-02	2.655	16.20	572.6
163	.00000	.16000	17.0000	.1024	.1246	.1170	.9299	.3585-02	.4098-02	2.608	15.91	572.3
163	.00000	.17000	18.0000	.1001	.1219	.1146	.9293	.3504-02	.4012-02	2.544	15.95	573.7
163	.00000	.18000	19.0000	.9826-01	.1197	.1126	.9289	.3442-02	.3943-02	2.501	15.69	573.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 59

OH84B 60-0 FUSELAGE

(R4UA12)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
163	.00000	.20000	21.000	.9801-01	.1193	.1126	.9275	.3433-02	.3943-02	2.496	15.66	572.5
163	.00000	.25000	23.000	.8785-01	.1070	.1014	.8254	.3077-02	.3552-02	2.230	13.98	574.8
163	.00000	.30000	24.000	.8375-01	.1020	.9668-01	.9254	.2933-02	.3386-02	2.126	13.32	574.9
163	.00000	.35000	25.000	.8462-01	.1032	.9772-01	.9254	.2964-02	.3423-02	2.145	13.43	576.0
163	.00000	.40000	26.000	.8232-01	.1004	.9511-01	.9254	.2883-02	.3331-02	2.079	13.39	578.7
163	.00000	.45000	1027.0	.7213-01	.8801-01	.8335-01	.9254	.2526-02	.2919-02	1.820	12.07	579.4
163	.00000	.50000	1028.0	.6755-01	.8239-01	.7804-01	.9254	.2366-02	.2733-02	1.707	11.68	578.2
163	.00000	.55000	1029.0	.6579-01	.8037-01	.7609-01	.9254	.2304-02	.2665-02	1.651	12.03	583.0
163	.00000	.60000	1030.0	.6117-01	.7470-01	.7073-01	.9254	.2143-02	.2477-02	1.538	11.21	581.8
163	.00000	.65000	1031.0	.5276-01	.6442-01	.6100-01	.9254	.1848-02	.2136-02	1.327	9.667	581.8
163	.00000	.70000	1032.0	.5240-01	.6384-01	.6049-01	.9254	.1835-02	.2119-02	1.331	10.07	574.3
163	.00000	.75000	1033.0	.4886-01	.5951-01	.5639-01	.9254	.1711-02	.1975-02	1.243	9.100	573.1
163	.00000	.80000	1034.0	.5598-01	.6816-01	.6459-01	.9254	.1961-02	.2262-02	1.426	10.44	572.3
163	.00000	.85000	1035.0	.5688-01	.6923-01	.6636-01	.9200	.1992-02	.2324-02	1.452	11.00	571.1
163	10.000	.10000+00	45.000	.1359	.1656	.1656	.9000	.4759-02	.5799-02	3.448	21.01	575.1
163	14.000	.50000-01	44.000	.1955	.2387	.2387	.9000	.6848-02	.8362-02	4.916	33.59	581.7
163	20.000	.10000+00	207.00	.1873	.2290	.2290	.9000	.6561-02	.8020-02	4.688	26.92	585.1
163	20.000	.15000	211.00	.1188	.1447	.1447	.9000	.4162-02	.5069-02	3.023	18.96	573.5
163	22.000	.50000-01	202.00	.2411	.2946	.2946	.9000	.8443-02	.1032-01	6.037	32.95	584.7
163	24.000	.20000	48.000	.8598-01	.1049	.1049	.9000	.3012-02	.3673-02	2.174	19.05	577.9
163	24.500	.10000+00	208.00	.1943	.2377	.2377	.9000	.6805-02	.8325-02	4.844	30.16	587.9
163	25.500	.15000	212.00	.1276	.1561	.1561	.9000	.4468-02	.5467-02	3.179	27.71	588.2
163	31.500	.20000	215.00	.9058-01	.1107	.1107	.9000	.3172-02	.3878-02	2.267	22.49	585.1
163	35.000	.50000-01	203.00	.1801	.2195	.2195	.9000	.6308-02	.7688-02	4.567	28.62	575.6
163	35.000	.20000	216.00	.9616-01	.1175	.1175	.9000	.3368-02	.4117-02	2.406	23.87	585.3
163	39.000	.10000+00	209.00	.1008	.1223	.1223	.9000	.3530-02	.4285-02	2.606	16.44	561.5
163	40.000	.15000	213.00	.1599	.1960	.1960	.9000	.5601-02	.6864-02	3.954	28.65	593.6
163	40.000	.20000	217.00	.9422-01	.1154	.1154	.9000	.3300-02	.4041-02	2.339	25.45	590.9
163	42.500	.50000-01	204.00	.8659-01	.1050	.1050	.9000	.3033-02	.3676-02	2.252	15.11	557.0
163	45.500	.15000	214.00	.9040-01	.1097	.1097	.9000	.3166-02	.3842-02	2.342	13.62	560.2
163	51.000	.20000	218.00	.4868-01	.5894-01	.5894-01	.9000	.1705-02	.2065-02	1.273	8.067	553.0
163	60.000	.50000-01	205.00	.2800-01	.3379-01	.3379-01	.9000	.9806-03	.1184-02	.7428	5.019	542.2
163	67.500	.20000	219.00	.2779-01	.3363-01	.3363-01	.9000	.9732-03	.1178-02	.7286	5.391	551.1
163	96.500	.20000	1220.0	.2230-01	.2697-01	.2697-01	.9000	.7812-03	.9445-03	.5871	4.211	548.1
162	114.00	.40000	388.00	.1958-01	.2365-01	.2365-01	.9000	.6858-03	.8285-03	.5178	3.720	544.7
162	114.00	.50000	390.00	.2506-01	.3025-01	.3025-01	.9000	.8778-03	.1060-02	.6640	4.111	543.2
162	114.00	.70000	394.00	.1741-01	.2100-01	.2100-01	.9000	.6098-03	.7358-03	.4627	3.037	540.8
162	157.50	.40000	223.00	.2735-02	.3296-02	.3296-02	.9000	.9583-04	.1155-03	.7324-01	.4820	535.4
162	157.50	.50000	225.00	.3825-02	.4610-02	.4610-02	.9000	.1340-03	.1615-03	.1024	.6735	535.9
162	157.50	.70000	229.00	.6396-02	.7703-02	.7703-02	.9000	.2241-03	.2699-03	.1716	1.281	533.9
162	157.50	.80000	231.00	.8660-02	.1043-01	.1043-01	.9000	.3034-03	.3654-03	.2324	1.626	533.7
162	180.00	.40000	182.00	.2380-02	.2869-02	.2869-02	.9000	.8339-04	.1005-03	.6366-01	.5477	536.2
162	180.00	.50000	184.00	.1516-02	.1826-02	.1826-02	.9000	.5310-04	.6397-04	.4060-01	.3635	535.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 80

OH84B 60-0 FUSELAGE

(R4UA12)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
162	180.00	.60000	186.00	.2564-02	.3089-02	.3089-02	.9000	.8983-04	.1082-03	.6873-01	.6155	534.5
162	180.00	.70000	188.00	.2732-02	.3290-02	.3290-02	.9000	.9570-04	.1153-03	.7325-01	.6560	534.2
162	180.00	.80000	190.00	.2780-02	.3348-02	.3348-02	.9000	.9740-04	.1173-03	.7466-01	.7272	533.1
162	315.00	.40000	234.00	.1681-02	.2025-02	.2025-02	.9000	.5889-04	.7096-04	.4502-01	.3358	535.2
162	315.00	.50000	236.00	.2056-02	.2477-02	.2477-02	.9000	.7203-04	.8677-04	.5512-01	.3428	534.5
162	315.00	.70000	240.00	.4819-02	.5805-02	.5805-02	.9000	.1688-03	.2034-03	.1282	.9643	534.3
162	315.00	.80000	242.00	.4307-02	.5185-02	.5185-02	.9000	.1509-03	.1817-03	.1158	.8107	532.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 61

OH84B 60-0 FUSELAGE

(R4UA12)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
105	3.010	7.990	35.02	-1.985	670.5	1321.	95.92	.6924-01	3.094	3836.	.1948-02	.7719-07
106	3.013	7.990	35.02	-1.984	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
105	.4349-01	.2338-01
106	.4349-01	.2337-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
105	.00000	.00000	1.0000	.5221	.6491	.5610	.9646	.2271-01	.2440-01	15.32	81.17	645.8
105	.00000	.50000-02	2.0000	.5264	.6647	.5410	.9870	.2289-01	.2353-01	14.53	94.37	686.1
105	.00000	.10000-01	3.0000	.4713	.5900	.4840	.9870	.2050-01	.2105-01	13.46	85.65	664.2
105	.00000	.20000-01	4.0000	.3431	.4208	.3632	.9700	.1492-01	.1580-01	10.68	57.71	605.0
106	.00000	.30000-01	5.0000	.2564	.3132	.2763	.9603	.1115-01	.1201-01	8.115	44.13	591.9
106	.00000	.40000-01	6.0000	.2291	.2794	.2499	.9538	.0911-02	.1087-01	7.304	39.82	586.6
106	.00000	.50000-01	7.0000	.1957	.2391	.2157	.9489	.8509-02	.9380-02	6.180	40.71	593.4
106	.00000	.60000-01	8.0000	.2021	.2469	.2243	.9454	.8788-02	.9756-02	6.386	39.67	593.0
106	.00000	.70000-01	9.0000	.1716	.2096	.1919	.9418	.7464-02	.8344-02	5.434	36.94	591.6
106	.00000	.80000-01	10.000	.1416	.1727	.1591	.9390	.6158-02	.6917-02	4.512	30.75	586.9
106	.00000	.90000-01	11.000	.1336	.1625	.1504	.9371	.5808-02	.6542-02	4.302	26.90	579.1
106	.00000	.10000+00	12.000	.1235	.1502	.1396	.9352	.5373-02	.6072-02	3.995	23.67	576.1
106	.00000	.12000	13.000	.1062	.1289	.1205	.9326	.4619-02	.5242-02	3.463	19.04	569.9
106	.00000	.13000	14.000	.1037	.1259	.1179	.9317	.4512-02	.5130-02	3.378	19.53	571.1
106	.00000	.14000	15.000	.1009	.1226	.1149	.9310	.4386-02	.4997-02	3.266	20.47	575.0
106	.00000	.15000	16.000	.1040	.1264	.1185	.9306	.4521-02	.5155-02	3.366	20.50	575.3
106	.00000	.16000	17.000	.1032	.1255	.1179	.9300	.4489-02	.5125-02	3.342	20.36	575.2
106	.00000	.17000	18.000	.1006	.1224	.1151	.9293	.4376-02	.5004-02	3.249	20.34	577.1
106	.00000	.18000	19.000	.9826-01	.1195	.1125	.9289	.4273-02	.4891-02	3.178	19.90	576.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 62

OH84B 60-0 FUSELAGE

(R4UA12)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
106	.00000	.20000	21.000	.9630-01	.1171	.1105	.9276	.4188-02	.4805-02	3.117	19.53	575.3
106	.00000	.25000	23.000	.8662-01	.1054	.9989-01	.9254	.3767-02	.4344-02	2.791	17.46	578.7
106	.00000	.30000	24.000	.8209-01	.9990-01	.9468-01	.9254	.3570-02	.4118-02	2.642	16.52	579.5
106	.00000	.35000	25.000	.8432-01	.1027	.9730-01	.9254	.3667-02	.4232-02	2.706	16.90	581.8
106	.00000	.40000	26.000	.8157-01	.9945-01	.9421-01	.9254	.3548-02	.4097-02	2.604	16.71	585.6
106	.00000	.45000	1027.0	.7231-01	.8820-01	.8354-01	.9254	.3145-02	.3633-02	2.303	15.22	587.2
106	.00000	.50000	1028.0	.7295-01	.8878-01	.8414-01	.9254	.3172-02	.3659-02	2.348	16.06	579.6
106	.00000	.55000	1029.0	.6666-01	.8144-01	.7710-01	.9254	.2899-02	.3353-02	2.108	15.28	592.6
106	.00000	.60000	1030.0	.6375-01	.7785-01	.7371-01	.9254	.2772-02	.3206-02	2.020	14.65	591.1
106	.00000	.65000	1031.0	.5672-01	.6928-01	.6559-01	.9254	.2467-02	.2853-02	1.796	13.03	591.5
106	.00000	.70000	1032.0	.6196-01	.7556-01	.7157-01	.9254	.2695-02	.3113-02	1.975	14.86	586.6
106	.00000	.75000	1033.0	.6822-01	.8326-01	.7885-01	.9254	.2967-02	.3429-02	2.168	15.74	588.9
106	.00000	.80000	1034.0	.8823-01	.1078	.1020	.9254	.3837-02	.4437-02	2.794	20.26	591.5
106	.00000	.85000	1035.0	.1021	.1248	.1195	.9200	.4439-02	.5196-02	3.221	24.13	594.2
106	10.000	.10000+00	45.000	.1365	.1660	.1660	.9000	.5936-02	.7220-02	4.406	26.82	577.4
106	14.000	.50000-01	44.000	.1959	.2389	.2389	.9000	.8521-02	.1039-01	6.254	42.64	585.8
106	20.000	.10000+00	207.00	.1883	.2298	.2298	.9000	.8191-02	.9993-02	5.997	34.41	587.5
106	20.000	.15000	211.00	.1187	.1443	.1443	.9000	.5164-02	.6276-02	3.845	24.10	575.0
106	22.000	.50000-01	202.00	.2420	.2954	.2954	.9000	.1053-01	.1285-01	7.682	41.82	589.9
106	24.000	.20000	48.000	.8575-01	.1044	.1044	.9000	.3730-02	.4542-02	2.752	24.06	581.9
106	24.500	.10000+00	208.00	.1943	.2373	.2373	.9000	.8452-02	.1032-01	6.160	38.30	590.8
106	25.500	.15000	212.00	.1265	.1544	.1544	.9000	.5503-02	.6717-02	4.021	35.03	589.1
106	31.500	.20000	215.00	.9043-01	.1104	.1104	.9000	.3933-02	.4803-02	2.867	28.36	590.9
106	35.000	.50000-01	203.00	.1804	.2192	.2192	.9000	.7845-02	.9532-02	5.848	36.66	574.2
106	35.000	.20000	216.00	.9617-01	.1174	.1174	.9000	.4182-02	.5108-02	3.047	30.14	591.1
106	39.000	.10000+00	209.00	.1020	.1234	.1234	.9000	.4435-02	.5369-02	3.367	21.26	560.5
106	40.000	.15000	213.00	.1612	.1973	.1973	.9000	.7012-02	.8580-02	5.063	36.60	597.6
106	40.000	.20000	217.00	.9386-01	.1149	.1149	.9000	.4082-02	.4996-02	2.944	31.92	598.4
106	42.500	.50000-01	204.00	.8666-01	.1047	.1047	.9000	.3769-02	.4556-02	2.880	19.33	555.5
106	45.500	.15000	214.00	.9133-01	.1104	.1104	.9000	.3972-02	.4803-02	3.031	17.66	556.7
106	51.000	.20000	218.00	.4965-01	.5993-01	.5993-01	.9000	.2160-02	.2607-02	1.662	10.55	550.1
106	60.000	.50000-01	205.00	.2818-01	.3390-01	.3390-01	.9000	.1226-02	.1474-02	.9579	6.486	538.1
106	67.500	.20000	219.00	.2805-01	.3384-01	.3384-01	.9000	.1220-02	.1472-02	.9407	6.969	548.6
106	96.500	.20000	1220.0	.2275-01	.2742-01	.2742-01	.9000	.9893-03	.1193-02	.7657	5.498	545.7
105	114.00	.40000	388.00	.1897-01	.2288-01	.2288-01	.9000	.8253-03	.9950-03	.6389	4.586	546.5
105	114.00	.50000	390.00	.2560-01	.3085-01	.3085-01	.9000	.1113-02	.1342-02	.8629	5.336	545.6
105	114.00	.70000	394.00	.3716-01	.4484-01	.4484-01	.9000	.1616-02	.1950-02	1.247	8.146	549.4
105	157.50	.40000	223.00	.3044-02	.3661-02	.3661-02	.9000	.1324-03	.1592-03	.1039	.6834	536.1
105	157.50	.50000	225.00	.8470-02	.1019-01	.1019-01	.9000	.3684-03	.4433-03	.2879	1.891	539.2
105	157.50	.70000	229.00	.9064-02	.1090-01	.1090-01	.9000	.3942-03	.4739-03	.3096	2.310	535.2
105	157.50	.80800	231.00	.4841-02	.5816-02	.5816-02	.9000	.2106-03	.2530-03	.1659	1.161	532.9
105	180.00	.40000	182.00	.3097-02	.3726-02	.3726-02	.9000	.1347-03	.1621-03	.1055	.9064	537.9
105	180.00	.50000	184.00	.2132-02	.2564-02	.2564-02	.9000	.9273-04	.1115-03	.7272-01	.6506	536.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 63

OH84B 60-0 FUSELAGE

(R4UA12)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
105	180.00	.60000	186.00	.3475-02	.4178-02	.4178-02	.9000	.1511-03	.1817-03	.1186	1.061	536.1
105	180.00	.70000	188.00	.3473-02	.4175-02	.4175-02	.9000	.1511-03	.1816-03	.1187	1.063	534.8
105	180.00	.80000	190.00	.3319-02	.3988-02	.3988-02	.9000	.1444-03	.1735-03	.1136	1.106	533.8
105	315.00	.40000	234.00	.1540-02	.1852-02	.1852-02	.9000	.6700-04	.8055-04	.5260-01	.3923	535.6
105	315.00	.50000	236.00	.1918-02	.2305-02	.2305-02	.9000	.8341-04	.1003-03	.6555-01	.4075	534.9
105	315.00	.70000	240.00	.6277-02	.7546-02	.7546-02	.9000	.2730-03	.3282-03	.2144	1.600	535.3
105	315.00	.80000	242.00	.7333-02	.8812-02	.8812-02	.9000	.3189-03	.3832-03	.2509	1.756	533.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 64

OH84B 60-0 FUSELAGE

(R4UA12)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
139	3.682	8.000	35.03	-1.973	853.3	1353.	98.02	.8741-01	3.916	3883.	.2407-02	.7888-07
140	3.683	8.000	35.02	-1.979	853.5	1353.	98.02	.8743-01	3.917	3883.	.2407-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
139	.4913-01	.2109-01
140	.4914-01	.2109-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
139	.00000	.00000	1.0000	.5237	.6524	.5631	.9646	.2573-01	.2766-01	17.65	92.57	668.7
139	.00000	.50000-02	2.0000	.5287	.6702	.5436	.9870	.2598-01	.2671-01	16.64	106.8	712.0
139	.00000	.10000-01	3.0000	.4730	.5938	.4858	.9870	.2324-01	.2387-01	15.45	97.20	688.0
139	.00000	.20000-01	4.0000	.3470	.4265	.3675	.9701	.1705-01	.1805-01	12.37	66.13	627.0
140	.00000	.30000-01	5.0000	.2580	.3150	.2779	.9603	.1268-01	.1366-01	9.468	51.14	605.7
140	.00000	.40000-01	6.0000	.2333	.2843	.2544	.9538	.1146-01	.1250-01	8.635	46.78	599.4
140	.00000	.50000-01	7.0000	.1966	.2402	.2167	.9489	.9659-02	.1065-01	7.191	47.02	608.1
140	.00000	.60000-01	8.0000	.2039	.2491	.2263	.9454	.1002-01	.1112-01	7.458	45.98	608.2
140	.00000	.70000-01	9.0000	.1746	.2133	.1952	.9418	.8578-02	.9591-02	6.399	43.18	606.8
140	.00000	.80000-01	10.000	.1425	.1737	.1600	.9390	.7002-02	.7862-02	5.276	35.74	599.1
140	.00000	.90000-01	11.000	.1347	.1638	.1516	.9371	.6617-02	.7451-02	5.029	31.24	592.7
140	.00000	.10000+00	12.000	.1239	.1506	.1400	.9352	.6088-02	.6878-02	4.648	27.36	589.3
140	.00000	.12000	13.000	.1078	.1308	.1223	.9326	.5298-02	.6010-02	4.082	22.30	582.2
140	.00000	.13000	14.000	.1044	.1267	.1187	.9317	.5132-02	.5832-02	3.947	22.68	583.6
140	.00000	.14000	15.000	.1008	.1225	.1148	.9311	.4953-02	.5641-02	3.788	23.59	587.9
140	.00000	.15000	16.000	.1053	.1280	.1200	.9306	.5175-02	.5899-02	3.955	23.94	588.3
140	.00000	.16000	17.000	.1031	.1253	.1177	.9300	.5066-02	.5783-02	3.873	23.44	588.2
140	.00000	.17000	18.000	.1014	.1232	.1159	.9293	.4981-02	.5695-02	3.797	23.62	590.2
140	.00000	.18000	19.000	.9874-01	.1200	.1130	.9289	.4852-02	.5552-02	3.703	23.04	589.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 66

OH84B 60-0 FUSELAGE

(R4UA12)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
140	.00000	.20000	21.000	.9726-01	.1182	.1116	.9276	.4779-02	.5482-02	3.653	22.75	588.2
140	.00000	.25000	23.000	.8658-01	.1053	.9982-01	.9254	.4254-02	.4905-02	3.236	20.11	592.0
140	.00000	.30000	24.000	.8191-01	.9954-01	.9434-01	.9254	.4020-02	.4636-02	3.053	18.96	593.3
140	.00000	.35000	25.000	.8455-01	.1030	.9756-01	.9254	.4154-02	.4794-02	3.142	19.49	596.3
140	.00000	.40000	26.000	.8202-01	.1000	.9473-01	.9254	.4030-02	.4655-02	3.029	19.29	601.1
140	.00000	.45000	1027.0	.7270-01	.8869-01	.8399-01	.9254	.3572-02	.4187-02	2.681	17.58	602.3
140	.00000	.50000	1028.0	.8030-01	.9764-01	.9256-01	.9254	.3946-02	.4548-02	3.005	20.43	591.2
140	.00000	.55000	1029.0	.6792-01	.8302-01	.7858-01	.9254	.3337-02	.3861-02	2.481	17.84	609.1
140	.00000	.60000	1030.0	.6580-01	.8041-01	.7612-01	.9254	.3233-02	.3740-02	2.407	17.31	608.3
140	.00000	.65000	1031.0	.6384-01	.7806-01	.7388-01	.9254	.3137-02	.3630-02	2.330	16.75	609.8
140	.00000	.70000	1032.0	.7704-01	.9414-01	.8912-01	.9254	.3786-02	.4379-02	2.819	20.97	608.1
140	.00000	.75000	1033.0	.9536-01	.1167	.1105	.9254	.4686-02	.5427-02	3.460	24.81	614.3
140	.00000	.80000	1034.0	.1278	.1567	.1482	.9254	.6279-02	.7282-02	4.598	32.88	620.3
140	.00000	.85000	1035.0	.1497	.1839	.1758	.9200	.7354-02	.8640-02	5.351	39.49	625.1
140	10.000	.10000+00	45.000	.1372	.1669	.1669	.9000	.6743-02	.8199-02	5.137	31.05	590.9
140	14.000	.50000-01	44.000	.1977	.2413	.2413	.9000	.9716-02	.1186-01	7.279	49.19	603.5
140	20.000	.10000+00	207.00	.1887	.2302	.2302	.9000	.9273-02	.1131-01	6.957	39.62	602.4
140	20.000	.15000	211.00	.1185	.1440	.1440	.9000	.5824-02	.7076-02	4.451	27.71	588.4
140	22.000	.50000-01	202.00	.2436	.2973	.2973	.9000	.1197-01	.1461-01	8.961	48.44	603.9
140	24.000	.20000	48.000	.8569-01	.1044	.1044	.9000	.4211-02	.5128-02	3.185	27.66	596.2
140	24.500	.10000+00	208.00	.1962	.2396	.2396	.9000	.9641-02	.1177-01	7.199	44.43	606.0
140	25.500	.15000	212.00	.1265	.1544	.1544	.9000	.6214-02	.7587-02	4.647	40.18	604.9
140	31.500	.20000	215.00	.9028-01	.1102	.1102	.9000	.4436-02	.5414-02	3.321	32.64	604.0
140	35.000	.50000-01	203.00	.1796	.2182	.2182	.9000	.8824-02	.1072-01	6.737	41.93	589.1
140	35.000	.20000	216.00	.9619-01	.1174	.1174	.9000	.4727-02	.5769-02	3.538	34.78	604.1
140	39.000	.10000+00	209.00	.1020	.1234	.1234	.9000	.5014-02	.6063-02	3.919	24.61	571.0
140	40.000	.15000	213.00	.1607	.1967	.1967	.9000	.7896-02	.9666-02	5.831	41.82	614.1
140	40.000	.20000	217.00	.8981-01	.1099	.1099	.9000	.4413-02	.5399-02	3.270	35.22	611.7
140	42.500	.50000-01	204.00	.8653-01	.1045	.1045	.9000	.4252-02	.5133-02	3.351	22.39	564.6
140	45.500	.15000	214.00	.9106-01	.1100	.1100	.9000	.4475-02	.5406-02	3.514	20.36	567.4
140	51.000	.20000	218.00	.4894-01	.5901-01	.5901-01	.9000	.2405-02	.2900-02	1.907	12.04	559.8
140	60.000	.50000-01	205.00	.2788-01	.3349-01	.3349-01	.9000	.1370-02	.1646-02	1.107	7.466	545.0
140	67.500	.20000	219.00	.2736-01	.3298-01	.3298-01	.9000	.1345-02	.1620-02	1.068	7.875	558.3
140	96.500	.20000	1220.0	.2305-01	.2776-01	.2776-01	.9000	.1133-02	.1364-02	.9042	6.464	554.4
139	114.00	.40000	388.00	.1858-01	.2236-01	.2236-01	.9000	.9128-03	.1099-02	.7298	5.221	553.1
139	114.00	.50000	390.00	.2901-01	.3492-01	.3492-01	.9000	.1425-02	.1716-02	1.139	7.014	553.7
139	114.00	.70000	394.00	.4998-01	.6026-01	.6026-01	.9000	.2455-02	.2961-02	1.947	12.66	559.8
139	157.50	.40000	223.00	.3252-02	.3903-02	.3903-02	.9000	.1598-03	.1918-03	.1296	.8506	541.4
139	157.50	.50000	225.00	.1197-01	.1437-01	.1437-01	.9000	.5880-03	.7059-03	.4765	3.125	542.4
139	157.50	.70000	229.00	.9892-02	.1187-01	.1187-01	.9000	.4860-03	.5833-03	.3942	2.931	541.7
139	157.50	.80000	231.00	.5499-02	.6594-02	.6594-02	.9000	.2702-03	.3240-03	.2200	1.536	538.2
139	180.00	.40000	182.00	.3694-02	.4435-02	.4435-02	.9000	.1815-03	.2179-03	.1470	1.260	542.9
139	180.00	.50000	184.00	.3033-02	.3641-02	.3641-02	.9000	.1490-03	.1789-03	.1208	1.077	542.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 66

OH84B 60-0 FUSELAGE

(R4UA12)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
139	180.00	.60000	186.00	.3670-02	.4404-02	.4404-02	.9000	.1803-03	.2164-03	.1462	1.304	541.8
139	180.00	.70000	188.00	.3834-02	.4601-02	.4601-02	.9000	.1884-03	.2261-03	.1528	1.364	541.2
139	180.00	.80000	190.00	.4440-02	.5327-02	.5327-02	.9000	.2182-03	.2617-03	.1773	1.721	539.8
139	315.00	.40000	234.00	.1576-02	.1891-02	.1891-02	.9000	.7742-04	.9290-04	.6288-01	.4678	540.5
139	315.00	.50000	236.00	.2080-02	.2496-02	.2496-02	.9000	.1022-03	.1226-03	.8304-01	.5148	540.3
139	315.00	.70000	240.00	.6978-02	.8373-02	.8373-02	.9000	.3428-03	.4114-03	.2783	2.070	540.8
139	315.00	.80000	242.00	.8308-02	.9964-02	.9964-02	.9000	.4082-03	.4896-03	.3322	2.319	538.7

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OH848 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 67

OH848 60-0 FUSELAGE

(R4UA13)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPD8RK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
159	2.024	7.980	35.01	-.9963	436.7	1296.	94.33	.4547-01	2.027	3799.	.1301-02	.7590-07
160	2.003	7.980	35.01	-.9963	435.2	1302.	94.76	.4531-01	2.020	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
159	.3508-01	.2856-01
160	.3505-01	.2869-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
159	.00000	.00000	1.0000	.5266	.6506	.5647	.9646	.1848-01	.1981-01	12.56	67.52	615.7
159	.00000	.50000-02	2.0000	.5374	.6713	.5517	.9870	.1885-01	.1936-01	12.25	81.07	646.2
159	.00000	.10000-01	3.0000	.4770	.5922	.4894	.9870	.1673-01	.1717-01	11.15	72.13	629.6
159	.00000	.20000-01	4.0000	.3389	.4145	.3585	.9700	.1189-01	.1258-01	8.441	46.04	585.7
160	.00000	.30000-01	5.0000	.2568	.3136	.2767	.9603	.9001-02	.9698-02	6.467	35.32	583.2
160	.00000	.40000-01	6.0000	.2318	.2827	.2528	.9538	.8125-02	.8862-02	5.869	32.12	579.3
160	.00000	.50000-01	7.0000	.1968	.2405	.2169	.9489	.6899-02	.7604-02	4.950	32.75	584.2
160	.00000	.60000-01	8.0000	.2022	.2470	.2244	.9454	.7087-02	.7866-02	5.099	31.76	583.6
160	.00000	.70000-01	9.0000	.1740	.2125	.1945	.9418	.6098-02	.6818-02	4.375	29.85	584.3
160	.00000	.80000-01	10.000	.1413	.1723	.1587	.9390	.4952-02	.5562-02	3.579	24.49	578.8
160	.00000	.90000-01	11.000	.1334	.1624	.1503	.9371	.4676-02	.5267-02	3.409	21.39	572.6
160	.00000	.10000+00	12.000	.1230	.1496	.1390	.9351	.4310-02	.4872-02	3.152	18.73	570.2
160	.00000	.12000	13.000	.1078	.1310	.1224	.9326	.3778-02	.4290-02	2.777	15.29	566.5
160	.00000	.13000	14.000	.1049	.1274	.1193	.9317	.3675-02	.4181-02	2.699	15.64	567.3
160	.00000	.14000	15.000	.1009	.1227	.1150	.9310	.3538-02	.4032-02	2.592	16.29	569.0
160	.00000	.15000	16.000	.1048	.1274	.1195	.9306	.3672-02	.4188-02	2.690	16.44	569.1
160	.00000	.16000	17.000	.1027	.1249	.1173	.9300	.3601-02	.4112-02	2.640	16.14	568.6
160	.00000	.17000	18.000	.1006	.1224	.1151	.9293	.3527-02	.4035-02	2.581	16.21	570.0
160	.00000	.18000	19.000	.9874-01	.1201	.1130	.9289	.3461-02	.3962-02	2.535	15.93	569.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 69

OH84B 60-0 FUSELAGE

(R4UA13)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
160	.00000	.20000	21.000	.9684-01	.1177	.1111	.9276	.3394-02	.3894-02	2.492	15.67	567.6
160	.00000	.25000	23.000	.8801-01	.1071	.1015	.9254	.3085-02	.3557-02	2.255	14.16	570.6
160	.00000	.30000	24.000	.8288-01	.1008	.9558-01	.9254	.2905-02	.3350-02	2.124	13.34	570.5
160	.00000	.35000	25.000	.8451-01	.1028	.9748-01	.9254	.2962-02	.3417-02	2.163	13.58	571.5
160	.00000	.40000	26.000	.8483-01	.1033	.9789-01	.9254	.2973-02	.3431-02	2.164	13.97	573.9
160	.00000	.45000	1027.0	.7197-01	.8767-01	.8307-01	.9254	.2523-02	.2912-02	1.833	12.19	574.9
160	.00000	.50000	1028.0	.6641-01	.8088-01	.7664-01	.9254	.2328-02	.2686-02	1.693	11.81	574.2
160	.00000	.55000	1029.0	.6551-01	.7989-01	.7568-01	.9254	.2296-02	.2652-02	1.660	12.12	578.7
160	.00000	.60000	1030.0	.6223-01	.7587-01	.7187-01	.9254	.2181-02	.2519-02	1.579	11.53	577.8
160	.00000	.65000	1031.0	.5325-01	.6493-01	.6151-01	.9254	.1867-02	.2156-02	1.351	9.862	578.0
160	.00000	.70000	1032.0	.5339-01	.6496-01	.6157-01	.9254	.1871-02	.2158-02	1.368	10.37	570.8
160	.00000	.75000	1033.0	.5017-01	.6103-01	.5785-01	.9254	.1759-02	.2028-02	1.286	9.427	570.2
160	.00000	.80000	1034.0	.5667-01	.6893-01	.6534-01	.9254	.1986-02	.2290-02	1.454	10.65	569.9
160	.00000	.85000	1035.0	.5642-01	.6861-01	.6577-01	.9200	.1977-02	.2305-02	1.448	10.98	569.4
160	10.000	.10000+00	45.000	.1341	.1632	.1632	.9000	.4702-02	.5720-02	3.438	21.00	570.4
160	14.000	.50000-01	44.000	.1933	.2356	.2356	.9000	.6776-02	.8259-02	4.915	33.66	576.4
160	20.000	.10000+00	207.00	.1864	.2274	.2274	.9000	.6533-02	.7970-02	4.714	27.14	580.0
160	20.000	.15000	211.00	.1171	.1424	.1424	.9000	.4105-02	.4992-02	3.007	18.90	569.0
160	22.000	.50000-01	202.00	.2379	.2902	.2902	.9000	.8339-02	.1017-01	6.025	32.97	579.2
160	24.000	.20000	48.000	.8482-01	.1033	.1033	.9000	.2973-02	.3619-02	2.167	19.03	572.8
160	24.500	.10000+00	208.00	.1916	.2340	.2340	.9000	.6717-02	.8201-02	4.833	30.18	582.2
160	25.500	.15000	212.00	.1252	.1528	.1528	.9000	.4387-02	.5356-02	3.158	27.63	581.6
160	31.500	.20000	215.00	.8884-01	.1084	.1084	.9000	.3114-02	.3798-02	2.250	22.39	579.1
160	35.000	.50000-01	203.00	.1736	.2112	.2112	.9000	.6086-02	.7404-02	4.451	27.96	570.3
160	35.000	.20000	216.00	.9395-01	.1146	.1146	.9000	.3293-02	.4016-02	2.380	23.68	579.0
160	39.000	.10000+00	209.00	.9467-01	.1147	.1147	.9000	.3318-02	.4021-02	2.471	15.62	577.0
160	40.000	.15000	213.00	.1556	.1903	.1903	.9000	.5455-02	.6669-02	3.900	28.35	586.7
160	40.000	.20000	217.00	.9161-01	.1119	.1119	.9000	.3211-02	.3922-02	2.305	25.17	583.8
160	42.500	.50000-01	204.00	.8253-01	.9990-01	.9990-01	.9000	.2893-02	.3502-02	2.165	14.55	553.1
160	45.500	.15000	214.00	.8448-01	.1023	.1023	.9000	.2961-02	.3587-02	2.209	12.88	556.6
160	51.000	.20000	218.00	.4575-01	.5533-01	.5533-01	.9000	.1603-02	.1939-02	1.205	7.646	550.2
160	60.000	.50000-01	205.00	.2617-01	.3157-01	.3157-01	.9000	.9174-03	.1106-02	.6988	4.727	540.0
160	67.500	.20000	219.00	.2584-01	.3123-01	.3123-01	.9000	.9055-03	.1094-02	.6828	5.062	547.6
160	96.500	.20000	1220.0	.2142-01	.2587-01	.2587-01	.9000	.7507-03	.9067-03	.5677	4.077	545.4
159	114.00	.40000	388.00	.1885-01	.2276-01	.2276-01	.9000	.6613-03	.7985-03	.4985	3.586	541.9
159	114.00	.50000	390.00	.2264-01	.2733-01	.2733-01	.9000	.7941-03	.9587-03	.5993	3.714	541.0
159	114.00	.70000	394.00	.1363-01	.1644-01	.1644-01	.9000	.4783-03	.5768-03	.3627	2.385	537.2
159	157.50	.40000	223.00	.3723-02	.4488-02	.4488-02	.9000	.1306-03	.1574-03	.9931-01	.6536	535.3
159	157.50	.50000	225.00	.3148-02	.3796-02	.3796-02	.9000	.1105-03	.1332-03	.8392-01	.5521	535.9
159	157.50	.70000	229.00	.6169-02	.7433-02	.7433-02	.9000	.2164-03	.2608-03	.1649	1.231	533.9
159	157.50	.80000	231.00	.7779-02	.9373-02	.9373-02	.9000	.2729-03	.3288-03	.2080	1.456	533.6
159	180.00	.40000	182.00	.1652-02	.1991-02	.1991-02	.9000	.5794-04	.6985-04	.4404-01	.3790	535.6
159	180.00	.50000	184.00	.1357-02	.1636-02	.1636-02	.9000	.4762-04	.5740-04	.3623-01	.3244	534.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA13)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
159	180.00	.60000	186.00	.1788-02	.2155-02	.2155-02	.9000	.6273-04	.7559-04	.4779-01	.4281	533.8
159	180.00	.70000	188.00	.1991-02	.2399-02	.2399-02	.9000	.6986-04	.8418-04	.5323-01	.4768	533.8
159	180.00	.80000	190.00	.3266-02	.3935-02	.3935-02	.9000	.1146-03	.1381-03	.8726-01	.8495	534.0
159	315.00	.40000	234.00	.1473-02	.1775-02	.1775-02	.9000	.5167-04	.6226-04	.3933-01	.2935	534.5
159	315.00	.50000	236.00	.1845-02	.2223-02	.2223-02	.9000	.6474-04	.7800-04	.4932-01	.3068	533.9
159	315.00	.70000	240.00	.4299-02	.5180-02	.5180-02	.9000	.1508-03	.1817-03	.1149	.8576	533.8
159	315.00	.80000	242.00	.4588-02	.5526-02	.5526-02	.9000	.1610-03	.1939-03	.1228	.8598	532.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 70

OH84B 60-0 FUSELAGE

(R4UA13)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
102	3.006	7.990	35.02	-.9887	672.7	1325.	96.21	.6947-01	3.104	3842.	.1949-02	.7742-07
103	3.014	7.990	35.03	-.9919	669.2	1318.	95.71	.6911-01	3.088	3832.	.1949-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
102	.4359-01	.2339-01
103	.4343-01	.2337-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
102	.00000	.00000	1.0000	.5245	.6498	.5629	.9646	.2286-01	.2454-01	15.70	83.48	637.9
102	.00000	.50000-02	2.0000	.5306	.6668	.5450	.9870	.2313-01	.2376-01	15.00	97.86	676.2
102	.00000	.10000-01	3.0000	.4714	.5879	.4839	.9870	.2055-01	.2109-01	13.74	87.79	656.0
102	.00000	.20000-01	4.0000	.3419	.4184	.3617	.9701	.1490-01	.1577-01	10.79	58.46	600.3
103	.00000	.30000-01	5.0000	.2564	.3129	.2752	.9603	.1114-01	.1200-01	8.121	44.24	588.3
103	.00000	.40000-01	6.0000	.2319	.2827	.2529	.9538	.1007-01	.1098-01	7.394	40.37	583.7
103	.00000	.50000-01	7.0000	.1963	.2397	.2163	.9490	.8525-02	.9394-02	6.201	40.91	590.2
103	.00000	.60000-01	8.0000	.2018	.2464	.2239	.9454	.8763-02	.9724-02	6.376	39.67	590.0
103	.00000	.70000-01	9.0000	.1721	.2101	.1923	.9418	.7474-02	.8353-02	5.447	37.09	588.8
103	.00000	.80000-01	10.000	.1419	.1730	.1593	.9391	.6162-02	.6921-02	4.514	30.79	585.1
103	.00000	.90000-01	11.000	.1341	.1631	.1510	.9371	.5824-02	.6559-02	4.310	26.97	577.7
103	.00000	.10000+00	12.000	.1236	.1502	.1396	.9352	.5367-02	.6065-02	3.986	23.63	575.0
103	.00000	.12000	13.000	.1063	.1290	.1206	.9326	.4618-02	.5240-02	3.457	19.01	569.1
103	.00000	.13000	14.000	.1038	.1261	.1181	.9317	.4510-02	.5128-02	3.371	19.51	570.2
103	.00000	.14000	15.000	.1006	.1223	.1146	.9311	.4369-02	.4977-02	3.249	20.37	574.1
103	.00000	.15000	16.000	.1046	.1271	.1192	.9306	.4542-02	.5179-02	3.377	20.59	574.2
103	.00000	.16000	17.000	.1025	.1245	.1170	.9300	.4450-02	.5081-02	3.309	20.17	574.1
103	.00000	.17000	18.000	.1008	.1226	.1153	.9293	.4380-02	.5009-02	3.249	20.36	575.8
103	.00000	.18000	19.000	.9768-01	.1187	.1118	.9289	.4243-02	.4855-02	3.152	19.75	574.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 71

OH84B 60-0 FUSELAGE

(R4UA13)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
103	.00000	.20000	21.000	.9653-01	.1173	.1107	.9276	.4193-02	.4810-02	3.117	19.54	574.2
103	.00000	.25000	23.000	.8680-01	.1056	.1001	.9254	.3770-02	.4347-02	2.791	17.47	577.4
103	.00000	.30000	24.000	.8119-01	.9879-01	.9363-01	.9254	.3526-02	.4067-02	2.608	16.32	578.1
103	.00000	.35000	25.000	.8396-01	.1022	.9687-01	.9254	.3647-02	.4207-02	2.688	16.80	580.4
103	.00000	.40000	26.000	.8374-01	.1021	.9671-01	.9254	.3637-02	.4200-02	2.665	17.11	584.8
103	.00000	.45000	1027.0	.7094-01	.8656-01	.8197-01	.9254	.3081-02	.3560-02	2.250	14.86	587.5
103	.00000	.50000	1028.0	.7915-01	.9627-01	.9125-01	.9254	.3438-02	.3963-02	2.547	17.45	576.6
103	.00000	.55000	1029.0	.6619-01	.8092-01	.7659-01	.9254	.2875-02	.3327-02	2.080	15.07	594.0
103	.00000	.60000	1030.0	.6230-01	.7615-01	.7208-01	.9254	.2706-02	.3131-02	1.960	14.20	593.4
103	.00000	.65000	1031.0	.5590-01	.6834-01	.6468-01	.9254	.2428-02	.2809-02	1.757	12.73	594.0
103	.00000	.70000	1032.0	.6005-01	.7331-01	.6942-01	.9254	.2608-02	.3015-02	1.900	14.27	589.1
103	.00000	.75000	1033.0	.6514-01	.7956-01	.7532-01	.9254	.2829-02	.3272-02	2.057	14.92	590.8
103	.00000	.80000	1034.0	.8320-01	.1017	.9625-01	.9254	.3614-02	.4181-02	2.619	18.98	592.9
103	.00000	.85000	1035.0	.9659-01	.1181	.1131	.9200	.4195-02	.4911-02	3.032	22.71	594.9
103	10.000	.10000+00	45.000	.1355	.1647	.1647	.9000	.5884-02	.7154-02	4.368	26.61	575.4
103	14.000	.50000-01	44.000	.1934	.2356	.2356	.9000	.8401-02	.1024-01	6.179	42.20	582.2
103	20.000	.10000+00	207.00	.1858	.2265	.2265	.9000	.8072-02	.9838-02	5.926	34.06	583.5
103	20.000	.15000	211.00	.1167	.1417	.1417	.9000	.5068-02	.6157-02	3.779	23.71	572.2
103	22.000	.50000-01	202.00	.2386	.2910	.2910	.9000	.1036-01	.1264-01	7.588	41.39	585.6
103	24.000	.20000	48.000	.8495-01	.1034	.1034	.9000	.3690-02	.4489-02	2.729	23.90	578.1
103	24.500	.10000+00	208.00	.1926	.2349	.2349	.9000	.8368-02	.1020-01	6.125	38.19	585.6
103	25.500	.15000	212.00	.1249	.1520	.1520	.9000	.5426-02	.6602-02	4.012	35.14	578.3
103	31.500	.20000	215.00	.8884-01	.1083	.1083	.9000	.3859-02	.4706-02	2.824	28.01	585.8
103	35.000	.50000-01	203.00	.1739	.2111	.2111	.9000	.7553-02	.9169-02	5.646	35.47	570.1
103	35.000	.20000	216.00	.9429-01	.1150	.1150	.9000	.4096-02	.4994-02	2.999	29.74	585.5
103	39.000	.10000+00	209.00	.9571-01	.1158	.1158	.9000	.4157-02	.5029-02	3.161	19.98	557.3
103	40.000	.15000	213.00	.1567	.1914	.1914	.9000	.6807-02	.8313-02	4.949	35.91	590.5
103	40.000	.20000	217.00	.9305-01	.1137	.1137	.9000	.4042-02	.4938-02	2.933	31.89	592.1
103	42.500	.50000-01	204.00	.8288-01	.1002	.1002	.9000	.3600-02	.4350-02	2.750	18.48	553.6
103	45.500	.15000	214.00	.8447-01	.1021	.1021	.9000	.3669-02	.4433-02	2.804	16.36	553.5
103	51.000	.20000	218.00	.4457-01	.5379-01	.5379-01	.9000	.1936-02	.2336-02	1.488	9.449	549.0
103	60.000	.50000-01	205.00	.2625-01	.3160-01	.3160-01	.9000	.1140-02	.1372-02	.8877	6.008	539.1
103	67.500	.20000	219.00	.2566-01	.3095-01	.3095-01	.9000	.1114-02	.1344-02	.8580	6.360	547.7
103	96.500	.20000	1220.0	.2158-01	.2603-01	.2603-01	.9000	.9375-03	.1131-02	.7237	5.196	545.8
102	114.00	.40000	388.00	.1816-01	.2190-01	.2190-01	.9000	.7916-03	.9545-03	.6143	4.405	548.6
102	114.00	.50000	390.00	.2551-01	.3076-01	.3076-01	.9000	.1112-02	.1341-02	.8633	5.331	548.3
102	114.00	.70000	394.00	.2142-01	.2581-01	.2581-01	.9000	.9337-03	.1125-02	.7272	4.761	545.8
102	157.50	.40000	223.00	.4445-02	.5347-02	.5347-02	.9000	.1938-03	.2331-03	.1522	.9995	539.3
102	157.50	.50000	225.00	.8604-02	.1035-01	.1035-01	.9000	.3750-03	.4512-03	.2943	1.932	540.0
102	157.50	.70000	229.00	.6687-02	.8040-02	.8040-02	.9000	.2915-03	.3504-03	.2294	1.709	537.6
102	157.50	.80000	231.00	.6264-02	.7527-02	.7527-02	.9000	.2730-03	.3281-03	.2155	1.507	535.4
102	180.00	.40000	182.00	.1974-02	.2375-02	.2375-02	.9000	.8603-04	.1035-03	.6749-01	.5794	540.1
102	180.00	.50000	184.00	.2135-02	.2568-02	.2568-02	.9000	.9306-04	.1119-03	.7308-01	.6528	539.4

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 72

OH84B 60-0 FUSELAGE

(R4UA13)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SFC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
102	180.00	.60000	186.00	.2923-02	.3516-02	.3516-02	.9000	.1274-03	.1533-03	.1000	.8937	539.4
102	180.00	.70000	188.00	.3041-02	.3657-02	.3657-02	.9000	.1325-03	.1594-03	.1042	.9315	538.3
102	180.00	.80000	190.00	.3996-02	.4803-02	.4803-02	.9000	.1742-03	.2094-03	.1373	1.334	536.6
102	315.00	.40000	234.00	.1482-02	.1783-02	.1783-02	.9000	.6461-04	.7770-04	.5079-01	.3782	538.5
102	315.00	.50000	236.00	.1814-02	.2182-02	.2182-02	.9000	.7908-04	.9509-04	.6223-01	.3863	537.8
102	315.00	.70000	240.00	.6443-02	.7748-02	.7748-02	.9000	.2808-03	.3377-03	.2208	1.644	538.5
102	315.00	.80000	242.00	.5005-02	.6015-02	.6015-02	.9000	.2182-03	.2622-03	.1721	1.204	535.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 73

OH84B 60-0 FUSELAGE

(R4UA13)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
136	3.699	8.000	35.06	-.9697	856.1	1352.	97.95	.8769-01	3.929	3881.	.2416-02	.7882-07
137	3.676	8.000	35.07	-.9690	851.9	1353.	98.02	.8726-01	3.909	3883.	.2403-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
136	.4921-01	.2104-01
137	.4909-01	.2111-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
136	.00000	.00000	1.0000	.5249	.6534	.5643	.9645	.2583-01	.2777-01	17.75	93.21	664.4
136	.00000	.50000-02	2.0000	.5287	.6696	.5436	.9870	.2602-01	.2675-01	16.72	107.4	709.1
136	.00000	.10000-01	3.0000	.4740	.5947	.4868	.9870	.2332-01	.2396-01	15.53	97.82	685.9
136	.00000	.20000-01	4.0000	.3461	.4252	.3664	.9701	.1703-01	.1803-01	12.37	66.16	625.4
137	.00300	.30000-01	5.0000	.2598	.3174	.2799	.9604	.1276-01	.1374-01	9.506	51.30	607.4
137	.00000	.40000-01	6.0000	.2336	.2848	.2547	.9539	.1147-01	.1250-01	8.618	46.65	601.1
137	.00000	.50000-01	7.0000	.1973	.2412	.2175	.9490	.9685-02	.1068-01	7.193	46.99	610.0
137	.00000	.60000-01	8.0000	.2041	.2496	.2266	.9455	.1002-01	.1113-01	7.444	45.85	609.9
137	.00000	.70000-01	9.0000	.1739	.2126	.1945	.9419	.8539-02	.9547-02	6.356	42.85	608.4
137	.00000	.80000-01	10.000	.1419	.1731	.1594	.9391	.6968-02	.7825-02	5.240	35.47	600.7
137	.00000	.90000-01	11.000	.1351	.1644	.1521	.9372	.6630-02	.7466-02	5.030	31.23	594.0
137	.00000	.10000+00	12.000	.1245	.1514	.1407	.9353	.6114-02	.6908-02	4.660	27.42	590.5
137	.00000	.12000	13.000	.1071	.1300	.1215	.9327	.5259-02	.5965-02	4.046	22.10	583.3
137	.00000	.13000	14.000	.1042	.1265	.1184	.9318	.5115-02	.5814-02	3.928	22.57	584.7
137	.00000	.14000	15.000	.1009	.1226	.1149	.9312	.4954-02	.5642-02	3.783	23.54	589.1
137	.00000	.15000	16.000	.1048	.1273	.1194	.9307	.5143-02	.5862-02	3.926	23.76	589.2
137	.00000	.16000	17.000	.1031	.1253	.1177	.9301	.5060-02	.5776-02	3.864	23.38	589.0
137	.00000	.17000	18.000	.1005	.1222	.1149	.9294	.4934-02	.5641-02	3.758	23.36	591.1
137	.00000	.18000	19.000	.9855-01	.1198	.1128	.9290	.4838-02	.5536-02	3.689	22.94	590.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 74

OH84B 60-0 FUSELAGE

(R4UA13)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(10) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
137	.00000	.20000	21.000	.9727-01	.1182	.1116	.9277	.4775-02	.5477-02	3.648	22.71	508.8
137	.00000	.25000	23.000	.8574-01	.1043	.9883-01	.9255	.4209-02	.4852-02	3.201	19.89	592.1
137	.00000	.30000	24.000	.8126-01	.9885-01	.9368-01	.9255	.3989-02	.4599-02	3.032	18.84	592.6
137	.00000	.35000	25.000	.8403-01	.1023	.9693-01	.9255	.4125-02	.4758-02	3.125	19.39	595.2
137	.00000	.40000	26.000	.8394-01	.1023	.9691-01	.9255	.4121-02	.4757-02	3.101	19.76	600.1
137	.00000	.45000	1027.0	.7099-01	.8660-01	.8200-01	.9255	.3485-02	.4025-02	2.615	17.15	602.4
137	.00000	.50000	1028.0	.6067-01	.7285-01	.6937-01	.9255	.2978-02	.3402-02	2.409	16.77	543.9
137	.00000	.55000	1029.0	.6663-01	.8150-01	.7711-01	.9255	.3271-02	.3786-02	2.424	17.41	611.6
137	.00000	.60000	1030.0	.6425-01	.7859-01	.7436-01	.9255	.3154-02	.3650-02	2.339	16.80	611.2
137	.00000	.65000	1031.0	.6140-01	.7518-01	.7111-01	.9255	.3014-02	.3491-02	2.224	15.94	614.9
137	.00000	.70000	1032.0	.7244-01	.8863-01	.8384-01	.9255	.3556-02	.4116-02	2.633	19.55	612.2
137	.00000	.75000	1033.0	.8850-01	.1085	.1026	.9255	.4345-02	.5036-02	3.191	22.84	618.3
137	.00000	.80000	1034.0	.1218	.1497	.1415	.9255	.5981-02	.6945-02	4.344	30.97	626.5
137	.00000	.85000	1035.0	.1425	.1753	.1676	.9201	.6997-02	.8227-02	5.061	37.28	629.4
137	10.000	.10000+00	45.000	.1366	.1661	.1661	.9000	.6705-02	.8155-02	5.102	30.83	591.8
137	14.000	.50000-01	44.000	.1953	.2384	.2384	.9000	.9585-02	.1170-01	7.169	48.43	604.7
137	20.000	.10000+00	207.00	.1874	.2286	.2286	.9000	.9198-02	.1122-01	6.897	39.26	602.9
137	20.000	.15000	211.00	.1169	.1420	.1420	.9000	.5737-02	.6971-02	4.385	27.30	588.4
137	22.000	.50000-01	202.00	.2390	.2917	.2917	.9000	.1173-01	.1432-01	8.777	47.44	604.5
137	24.000	.20000	48.000	.8449-01	.1029	.1029	.9000	.4148-02	.5049-02	3.142	27.30	595.1
137	24.500	.10000+00	208.00	.1926	.2352	.2352	.9000	.9456-02	.1155-01	7.062	43.59	605.9
137	25.500	.15000	212.00	.1241	.1515	.1515	.9000	.6091-02	.7436-02	4.555	39.38	604.8
137	31.500	.20000	215.00	.8890-01	.1085	.1085	.9000	.4364-02	.5327-02	3.266	32.09	604.4
137	35.000	.50000-01	203.00	.1749	.2125	.2125	.9000	.8586-02	.1043-01	6.560	40.84	588.6
137	35.000	.20000	216.00	.9349-01	.1140	.1140	.9000	.4590-02	.5598-02	3.446	33.91	601.8
137	39.000	.10000+00	209.00	.9835-01	.1189	.1189	.9000	.4828-02	.5835-02	3.784	23.78	569.0
137	40.000	.15000	213.00	.1578	.1930	.1930	.9000	.7746-02	.9475-02	5.740	41.22	611.6
137	40.000	.20000	217.00	.9055-01	.1107	.1107	.9000	.4445-02	.5432-02	3.310	35.72	608.1
137	42.500	.50000-01	204.00	.8307-01	.1002	.1002	.9000	.4078-02	.4921-02	3.221	21.54	562.8
137	45.500	.15000	214.00	.8745-01	.1056	.1056	.9000	.4293-02	.5183-02	3.383	19.63	564.7
137	51.000	.20000	218.00	.4646-01	.5598-01	.5598-01	.9000	.2281-02	.2748-02	1.816	11.48	556.7
137	60.000	.50000-01	205.00	.2693-01	.3233-01	.3233-01	.9000	.1322-02	.1587-02	1.070	7.226	543.2
137	67.500	.20000	219.00	.2632-01	.3169-01	.3169-01	.9000	.1292-02	.1556-02	1.030	7.608	555.2
137	96.500	.20000	1220.0	.2207-01	.2656-01	.2656-01	.9000	.1083-02	.1304-02	.8676	6.210	551.9
136	114.00	.40000	388.00	.1757-01	.2114-01	.2114-01	.9000	.8645-03	.1040-02	.6916	4.951	551.7
136	114.00	.50000	390.00	.3039-01	.3659-01	.3659-01	.9000	.1496-02	.1800-02	1.194	7.355	553.3
136	114.00	.70000	394.00	.2989-01	.3598-01	.3598-01	.9000	.1471-02	.1770-02	1.174	7.660	553.2
136	157.50	.40000	223.00	.4429-02	.5314-02	.5314-02	.9000	.2179-03	.2615-03	.1767	1.160	540.7
136	157.50	.50000	225.00	.1201-01	.1442-01	.1442-01	.9000	.5912-03	.7097-03	.4784	3.137	542.4
136	157.50	.70000	229.00	.7927-02	.9510-02	.9510-02	.9000	.3900-03	.4679-03	.3167	2.357	539.7
136	157.50	.80000	231.00	.5914-02	.7091-02	.7091-02	.9000	.2910-03	.3489-03	.2370	1.655	537.4
136	180.00	.40000	182.00	.2340-02	.2809-02	.2809-02	.9000	.1151-03	.1382-03	.9323-01	.7997	541.9
136	180.00	.50000	184.00	.2802-02	.3363-02	.3363-02	.9000	.1379-03	.1655-03	.1118	.9974	541.2

DATE 23 FEB 60

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 75

OH84B 60-0 FUSELAGE

(R4UA13)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
136	180.00	.60000	186.00	.3372-02	.4046-02	.4046-02	.9000	.1659-03	.1991-03	.1346	1.202	540.3
136	180.00	.70000	188.00	.3857-02	.4627-02	.4627-02	.9000	.1898-03	.2277-03	.1540	1.375	540.2
136	180.00	.80000	190.00	.4574-02	.5487-02	.5487-02	.9000	.2251-03	.2700-03	.1829	1.776	539.1
136	315.00	.40000	234.00	.1462-02	.1754-02	.1754-02	.9000	.7196-04	.8633-04	.5844-01	.4349	539.6
136	315.00	.50000	236.00	.2120-02	.2543-02	.2543-02	.9000	.1043-03	.1251-03	.8473-01	.5256	539.3
136	315.00	.70000	240.00	.7461-02	.8953-02	.8953-02	.9000	.3671-03	.4405-03	.2978	2.216	540.4
136	315.00	.80000	242.00	.5257-02	.6304-02	.6304-02	.9000	.2587-03	.3102-03	.2105	1.470	537.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 76

OH84B 60-0 FUSELAGE

(R4UA14)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
14	.5200	7.900	34.96	.2136-02	102.3	1241.	92.02	.1137-01	.4968	3715.	.3335-03	.7405-07
15	.5155	7.900	34.95	.2148-02	101.7	1243.	92.17	.1130-01	.4937	3718.	.3309-03	.7417-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
14	.1724-01	.5615-01
15	.1719-01	.5638-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
14	.00000	.00000	1.0000	.5344	.6574	.5722	.9647	.9213-02	.9864-02	6.107	33.44	577.7
14	.00000	.50000-02	2.0000	.5460	.6748	.5599	.9870	.9412-02	.9651-02	6.115	41.58	591.0
14	.00000	.10000-01	3.0000	.4857	.5987	.4979	.9870	.8373-02	.8583-02	5.501	36.41	583.6
14	.00000	.20000-01	4.0000	.3436	.4209	.3637	.9699	.5924-02	.6270-02	4.003	22.06	565.0
15	.00000	.30000-01	5.0000	.2598	.3174	.2800	.9602	.4466-02	.4813-02	3.059	16.92	557.6
15	.00000	.40000-01	6.0000	.2392	.2920	.2611	.9537	.4112-02	.4488-02	2.824	15.63	555.9
15	.00000	.50000-01	7.0000	.2023	.2471	.2230	.9488	.3477-02	.3833-02	2.381	15.96	557.9
15	.00000	.60000-01	8.0000	.2091	.2555	.2322	.9452	.3594-02	.3991-02	2.458	15.53	558.7
15	.00000	.70000-01	9.0000	.1778	.2172	.1988	.9417	.3056-02	.3418-02	2.093	14.47	557.9
15	.00000	.80000-01	10.000	.1469	.1793	.1652	.9389	.2525-02	.2839-02	1.735	12.00	555.8
15	.00000	.90000-01	11.000	.1373	.1675	.1549	.9369	.2361-02	.2663-02	1.628	10.32	552.9
15	.00000	.10000+00	12.000	.1259	.1536	.1426	.9350	.2165-02	.2451-02	1.496	8.970	551.8
15	.00000	.12000	13.000	.1140	.1390	.1298	.9324	.1960-02	.2230-02	1.356	7.530	550.5
15	.00000	.13000	14.000	.1109	.1352	.1264	.9315	.1906-02	.2173-02	1.319	7.708	550.7
15	.00000	.14000	15.000	.1054	.1285	.1204	.9309	.1812-02	.2069-02	1.254	7.954	550.7
15	.00000	.15000	16.000	.1079	.1315	.1233	.9305	.1855-02	.2120-02	1.283	7.915	550.8
15	.00000	.16000	17.000	.1066	.1299	.1219	.9298	.1832-02	.2096-02	1.266	7.806	551.4
15	.00000	.17000	18.000	.1050	.1281	.1204	.9292	.1805-02	.2069-02	1.246	7.900	552.3
15	.00000	.18000	19.000	.1031	.1256	.1182	.9287	.1772-02	.2032-02	1.224	7.764	551.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 77

OH84B 60-0 FUSELAGE

(R4UA14)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
15	.00000	.20000	21.000	.1005	.1225	.1156	.9274	.1728-02	.1987-02	1.196	7.589	550.5
15	.00000	.25000	23.000	.9333-01	.1138	.1078	.9253	.1604-02	.1853-02	1.109	7.029	551.7
15	.00000	.30000	24.000	.8565-01	.1044	.9895-01	.9253	.1472-02	.1701-02	1.018	6.454	551.4
15	.00000	.35000	25.000	.8706-01	.1061	.1006	.9253	.1497-02	.1729-02	1.035	6.560	551.4
15	.00000	.40000	26.000	.8540-01	.1041	.9868-01	.9253	.1468-02	.1696-02	1.014	6.614	552.3
15	.00000	.45000	1027.0	.7735-01	.9435-01	.8939-01	.9253	.1330-02	.1537-02	.9171	6.164	553.0
15	.00000	.50000	1028.0	.6763-01	.8246-01	.7813-01	.9253	.1163-02	.1343-02	.8034	5.572	551.6
15	.00000	.55000	1029.0	.6794-01	.8291-01	.7854-01	.9253	.1168-02	.1350-02	.8041	5.941	554.2
15	.00000	.60000	1030.0	.6243-01	.7616-01	.7215-01	.9253	.1073-02	.1240-02	.7397	5.467	553.4
15	.00000	.65000	1031.0	.5706-01	.6961-01	.6595-01	.9253	.9809-03	.1134-02	.6764	5.000	553.1
15	.00000	.70000	1032.0	.5629-01	.6867-01	.6506-01	.9253	.9677-03	.1118-02	.6670	5.100	553.4
15	.00000	.75000	1033.0	.5323-01	.6492-01	.6151-01	.9253	.9150-03	.1057-02	.6316	4.671	552.4
15	.00000	.80000	1034.0	.5566-01	.6786-01	.6430-01	.9253	.9568-03	.1105-02	.6615	4.894	551.3
15	.00000	.85000	1035.0	.5332-01	.6498-01	.6228-01	.9198	.9165-03	.1071-02	.6347	4.861	550.1
15	10.000	.10000+00	45.000	.1352	.1649	.1649	.9000	.2325-02	.2834-02	1.608	9.913	551.1
15	14.000	.50000-01	44.000	.1953	.2382	.2382	.9000	.3357-02	.4095-02	2.316	16.06	552.7
15	20.000	.10000+00	207.00	.1844	.2251	.2251	.9000	.3170-02	.3869-02	2.180	12.71	554.9
15	20.000	.15000	211.00	.1186	.1445	.1445	.9000	.2039-02	.2485-02	1.412	8.960	550.1
15	22.000	.50000-01	202.00	.2390	.2916	.2916	.9000	.4109-02	.5013-02	2.831	15.69	553.7
15	24.000	.20000	48.000	.8624-01	.1051	.1051	.9000	.1482-02	.1807-02	1.025	9.099	551.4
15	24.500	.10000+00	208.00	.1899	.2319	.2319	.9000	.3265-02	.3986-02	2.243	14.19	555.7
15	25.500	.15000	212.00	.1285	.1569	.1569	.9000	.2209-02	.2697-02	1.517	13.44	555.7
15	31.500	.20000	215.00	.8824-01	.1077	.1077	.9000	.1517-02	.1851-02	1.044	10.51	554.5
15	35.000	.50000-01	203.00	.1695	.2065	.2065	.9000	.2914-02	.3550-02	2.021	12.83	549.1
15	35.000	.20000	216.00	.9321-01	.1138	.1138	.9000	.1602-02	.1955-02	1.103	11.11	554.5
15	39.000	.10000+00	209.00	.9345-01	.1137	.1137	.9000	.1606-02	.1955-02	1.119	7.119	545.8
15	40.000	.15000	213.00	.1523	.1861	.1861	.9000	.2617-02	.3198-02	1.791	13.21	558.4
15	40.000	.20000	217.00	.9686-01	.1183	.1183	.9000	.1665-02	.2033-02	1.143	12.65	558.2
15	42.500	.50000-01	204.00	.8046-01	.9783-01	.9783-01	.9000	.1383-02	.1682-02	.9678	6.538	542.9
15	45.500	.15000	214.00	.8009-01	.9744-01	.9744-01	.9000	.1377-02	.1675-02	.9605	5.629	545.0
15	51.000	.20000	218.00	.4353-01	.5293-01	.5293-01	.9000	.7482-03	.9098-03	.5235	3.334	543.0
15	60.000	.50000-01	205.00	.2753-01	.3342-01	.3342-01	.9000	.4732-03	.5745-03	.3337	2.261	537.4
15	67.500	.20000	219.00	.2414-01	.2934-01	.2934-01	.9000	.4150-03	.5044-03	.2911	2.165	541.2
15	96.500	.20000	1220.0	.1991-01	.2419-01	.2419-01	.9000	.3422-03	.4158-03	.2403	1.730	540.5
14	114.00	.40000	388.00	.2004-01	.2434-01	.2434-01	.9000	.3455-03	.4196-03	.2427	1.749	538.2
14	114.00	.50000	390.00	.1822-01	.2212-01	.2212-01	.9000	.3141-03	.3813-03	.2212	1.374	536.5
14	114.00	.70000	394.00	.6234-02	.7561-02	.7561-02	.9000	.1075-03	.1303-03	.7594-01	.5002	534.0
14	157.50	.40000	223.00	.2117-02	.2569-02	.2569-02	.9000	.3650-04	.4428-04	.2577-01	.1697	534.6
14	157.50	.50000	225.00	.2034-02	.2467-02	.2467-02	.9000	.3506-04	.4252-04	.2478-01	.1632	533.8
14	157.50	.70000	229.00	.3723-02	.4513-02	.4513-02	.9000	.6418-04	.7780-04	.4546-01	.3396	532.4
14	157.50	.80000	231.00	.4426-02	.5365-02	.5365-02	.9000	.7631-04	.9249-04	.5412-01	.3792	531.5
14	180.00	.40000	182.00	.1765-02	.2142-02	.2142-02	.9000	.3043-04	.3692-04	.2146-01	.1847	535.4
14	180.00	.50000	184.00	.1814-02	.2201-02	.2201-02	.9000	.3127-04	.3794-04	.2208-01	.1977	534.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 78

OH84B 60-0 FUSELAGE

(R4UA14)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
14	180.00	.60000	186.00	.2366-02	.2870-02	.2870-02	.9000	.4079-04	.4947-04	.2883-01	.2583	533.8
14	180.00	.70000	188.00	.3541-02	.4294-02	.4294-02	.9000	.6104-04	.7403-04	.4316-01	.3866	533.6
14	180.00	.80000	190.00	.4142-02	.5022-02	.5022-02	.9000	.7140-04	.8657-04	.5054-01	.4923	532.8
14	315.00	.40000	234.00	.1854-02	.2249-02	.2249-02	.9000	.3196-04	.3877-04	.2257-01	.1685	534.3
14	315.00	.50000	236.00	.2535-02	.3074-02	.3074-02	.9000	.4370-04	.5299-04	.3089-01	.1922	533.6
14	315.00	.70000	240.00	.2327-02	.2821-02	.2821-02	.9000	.4012-04	.4864-04	.2843-01	.2124	532.2
14	315.00	.80000	242.00	.1425-02	.1727-02	.1727-02	.9000	.2457-04	.2977-04	.1744-01	.1222	530.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 79

OH84B 60-0 FUSELAGE

(R4UA14)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
61	2.001	7.980	34.99	.9426-07	435.2	1303.	94.84	.4531-01	2.020	3810.	.1289-02	.7631-07
62	1.995	7.980	34.99	-.1400-02	434.9	1305.	94.98	.4527-01	2.018	3813.	.1287-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R)
61	.3505-01	.2870-01
62	.3505-01	.2874-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
61	.00000	.00000	1.0000	.5300	.6548	.5683	.9647	.1858-01	.1992-01	12.69	68.07	619.6
61	.00000	.50000-02	2.0000	.5367	.6704	.5510	.9870	.1881-01	.1932-01	12.29	81.24	649.4
61	.00000	.10000-01	3.0000	.4779	.5935	.4903	.9870	.1675-01	.1719-01	11.21	72.38	633.7
61	.00000	.20000-01	4.0000	.3419	.4187	.3618	.9700	.1198-01	.1268-01	8.510	46.26	592.5
62	.00000	.30000-01	5.0000	.2564	.3128	.2762	.9603	.8989-02	.9681-02	6.512	35.62	580.2
62	.00000	.40000-01	6.0000	.2344	.2856	.2556	.9538	.8216-02	.8959-02	5.979	32.75	577.0
62	.00000	.50000-01	7.0000	.1975	.2410	.2176	.9489	.6924-02	.7627-02	5.009	33.19	581.2
62	.00000	.60000-01	8.0000	.2029	.2475	.2251	.9453	.7114-02	.7891-02	5.152	32.20	580.4
62	.00000	.70000-01	9.0000	.1748	.2133	.1953	.9418	.6128-02	.6847-02	4.434	30.30	581.1
62	.00000	.80000-01	10.000	.1428	.1739	.1603	.9390	.5005-02	.5619-02	3.644	24.96	576.5
62	.00000	.90000-01	11.000	.1338	.1627	.1507	.9370	.4690-02	.5281-02	3.443	21.63	570.5
62	.00000	.10000+00	12.000	.1232	.1498	.1392	.9351	.4319-02	.4880-02	3.179	18.91	568.5
62	.00000	.12000	13.000	.1090	.1323	.1237	.9325	.3820-02	.4337-02	2.826	15.57	565.0
62	.00000	.13000	14.000	.1051	.1276	.1195	.9316	.3684-02	.4189-02	2.727	15.82	564.6
62	.00000	.14000	15.000	.1011	.1228	.1152	.9310	.3545-02	.4037-02	2.620	16.50	565.5
62	.00000	.15000	16.000	.1041	.1264	.1187	.9306	.3648-02	.4159-02	2.690	16.45	567.4
62	.00000	.16000	17.000	.1025	.1246	.1170	.9299	.3594-02	.4102-02	2.651	16.22	566.9
62	.00000	.17000	18.000	.1010	.1227	.1154	.9293	.3539-02	.4046-02	2.606	16.39	568.2
62	.00000	.18000	19.000	.9873-01	.1200	.1130	.9288	.3461-02	.3959-02	2.552	16.05	567.3

DATE 23 FEB 80

OH849 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 80

OH848 60-0 FUSELAGE

(R4UA14)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
62	.00000	.20000	21.000	.9753-01	.1184	.1118	.9275	.3419-02	.3920-02	2.526	15.90	565.8
62	.00000	.25000	23.000	.8899-01	.1082	.1026	.9254	.3119-02	.3596-02	2.294	14.42	569.3
62	.00000	.30000	24.000	.8299-01	.1009	.9567-01	.9254	.2909-02	.3353-02	2.139	13.44	569.5
62	.00000	.35000	25.000	.8487-01	.1032	.9785-01	.9254	.2975-02	.3430-02	2.184	13.72	570.5
62	.00000	.40000	26.000	.8270-01	.1006	.9540-01	.9254	.2899-02	.3344-02	2.121	13.70	573.0
62	.00000	.45000	1027.0	.7324-01	.8918-01	.8452-01	.9254	.2567-02	.2962-02	1.874	12.46	574.7
62	.00000	.50000	1028.0	.6992-01	.8502-01	.8061-01	.9254	.2451-02	.2825-02	1.800	12.37	570.1
62	.00000	.55000	1029.0	.1129	.1374	.1302	.9254	.3957-02	.4564-02	2.894	21.18	573.2
62	.00000	.60000	1030.0	.6088-01	.7419-01	.7029-01	.9254	.2134-02	.2464-02	1.552	11.33	577.5
62	.00000	.65000	1031.0	.5450-01	.6643-01	.6294-01	.9254	.1910-02	.2206-02	1.387	10.13	578.4
62	.00000	.70000	1032.0	.5418-01	.6589-01	.6247-01	.9254	.1899-02	.2190-02	1.394	10.57	570.5
62	.00000	.75000	1033.0	.5057-01	.6149-01	.5830-01	.9254	.1772-02	.2043-02	1.302	9.545	570.0
62	.00000	.80000	1034.0	.5737-01	.6973-01	.6612-01	.9254	.2011-02	.2318-02	1.479	10.85	568.9
62	.00000	.85000	1035.0	.5762-01	.7001-01	.6714-01	.9199	.2020-02	.2353-02	1.488	11.30	567.7
62	10.000	.10000+00	45.000	.1340	.1629	.1629	.9000	.4697-02	.5709-02	3.459	21.14	568.3
62	14.000	.50000-01	44.000	.1936	.2357	.2357	.9000	.6785-02	.8262-02	4.951	33.94	574.9
62	20.000	.10000+00	207.00	.1840	.2241	.2241	.9000	.6448-02	.7856-02	4.695	27.08	576.6
62	20.000	.15000	211.00	.1165	.1415	.1415	.9000	.4085-02	.4961-02	3.016	18.98	566.4
62	22.000	.50000-01	202.00	.2363	.2876	.2876	.9000	.8284-02	.1008-01	6.068	33.33	572.1
62	24.000	.20000	48.000	.8448-01	.1027	.1027	.9000	.2951-02	.3601-02	2.175	19.13	570.2
62	24.500	.10000+00	208.00	.1900	.2316	.2316	.9000	.6659-02	.8117-02	4.837	30.27	578.3
62	25.500	.15000	212.00	.1229	.1497	.1497	.9000	.4306-02	.5247-02	3.136	27.49	576.6
62	31.500	.20000	215.00	.8749-01	.1066	.1066	.9000	.3066-02	.3736-02	2.233	22.25	576.4
62	35.000	.50000-01	203.00	.1703	.2067	.2067	.9000	.5968-02	.7245-02	4.419	27.84	564.3
62	35.000	.20000	216.00	.9245-01	.1126	.1126	.9000	.3241-02	.3947-02	2.361	23.53	576.0
62	39.000	.10000+00	209.00	.9271-01	.1122	.1122	.9000	.3250-02	.3934-02	2.436	15.42	555.2
62	40.000	.15000	213.00	.1535	.1874	.1874	.9000	.5381-02	.6568-02	3.885	28.29	582.8
62	40.000	.20000	217.00	.8654-01	.1056	.1056	.9000	.3033-02	.3700-02	2.196	24.02	580.7
62	42.500	.50000-01	204.00	.8023-01	.9699-01	.9699-01	.9000	.2812-02	.3400-02	2.122	14.29	549.9
62	45.500	.15000	214.00	.8096-01	.9797-01	.9797-01	.9000	.2838-02	.3434-02	2.132	12.44	553.3
62	51.000	.20000	218.00	.4350-01	.5257-01	.5257-01	.9000	.1525-02	.1843-02	1.153	7.322	548.5
62	60.000	.50000-01	205.00	.2583-01	.3112-01	.3112-01	.9000	.9053-03	.1091-02	.6942	4.701	537.9
62	67.500	.20000	219.00	.2447-01	.2955-01	.2955-01	.9000	.8577-03	.1036-02	.6507	4.828	546.0
62	96.500	.20000	1220.0	.2076-01	.2507-01	.2507-01	.9000	.7278-03	.8786-03	.5534	3.976	544.3
61	114.00	.40000	388.00	.1812-01	.2187-01	.2187-01	.9000	.6353-03	.7666-03	.4833	3.477	541.9
61	114.00	.50000	390.00	.1883-01	.2271-01	.2271-01	.9000	.6599-03	.7960-03	.5029	3.117	540.6
61	114.00	.70000	394.00	.1034-01	.1246-01	.1246-01	.9000	.3626-03	.4369-03	.2778	1.827	536.5
61	157.50	.40000	223.00	.3410-02	.4107-02	.4107-02	.9000	.1195-03	.1440-03	.9174-01	.6038	535.2
61	157.50	.50000	225.00	.3226-02	.3885-02	.3885-02	.9000	.1131-03	.1362-03	.8680-01	.5714	535.0
61	157.50	.70000	229.00	.6295-02	.7578-02	.7578-02	.9000	.2207-03	.2656-03	.1699	1.269	532.8
61	157.50	.80000	231.00	.6984-02	.8403-02	.8403-02	.9000	.2448-03	.2945-03	.1889	1.324	531.1
61	180.00	.40000	182.00	.1560-02	.1879-02	.1879-02	.9000	.5469-04	.6588-04	.4193-01	.3608	535.9
61	180.00	.50000	184.00	.1315-02	.1584-02	.1584-02	.9000	.4609-04	.5551-04	.3538-01	.3168	535.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA14)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
61	180.00	.60000	186.00	.1434-02	.1727-02	.1727-02	.9000	.5027-04	.6053-04	.3863-01	.3459	534.2
61	180.00	.70000	188.00	.1442-02	.1735-02	.1735-02	.9000	.5053-04	.6083-04	.3890-01	.3486	533.0
61	180.00	.80000	190.00	.3407-02	.4101-02	.4101-02	.9000	.1194-03	.1437-03	.9202-01	.8967	532.2
61	315.00	.40000	234.00	.1517-02	.1826-02	.1826-02	.9000	.5317-04	.6402-04	.4086-01	.3049	534.2
61	315.00	.50000	236.00	.1813-02	.2183-02	.2183-02	.9000	.6356-04	.7653-04	.4887-01	.3040	533.8
61	315.00	.70000	240.00	.4143-02	.4987-02	.4987-02	.9000	.1452-03	.1748-03	.1118	.8348	532.9
61	315.00	.80000	242.00	.4701-02	.5656-02	.5656-02	.9000	.1648-03	.1983-03	.1271	.8908	531.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 82

OH84B 60-0 FUSELAGE

(R4UA14)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
80	3.039	7.990	35.01	-.6938-03	670.1	1312.	95.27	.6920-01	3.092	3823.	.1960-02	.7666-07
81	3.030	7.990	35.02	-.6903-03	670.5	1315.	95.49	.6924-01	3.094	3827.	.1957-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
80	.4343-01	.2329-01
81	.4346-01	.2332-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
80	.00000	.00000	1.0000	.5267	.6534	.5655	.9646	.2287-01	.2456-01	15.47	82.34	635.5
80	.00000	.50000-02	2.0000	.5334	.6710	.5480	.9870	.2316-01	.2380-01	14.81	96.83	672.3
80	.00000	.10000-01	3.0000	.4745	.5926	.4871	.9870	.2061-01	.2116-01	13.56	86.75	653.6
80	.00000	.20000-01	4.0000	.3417	.4189	.3617	.9700	.1484-01	.1571-01	10.56	57.21	599.9
81	.00000	.30000-01	5.0000	.2558	.3123	.2756	.9603	.1112-01	.1198-01	8.076	43.99	588.2
81	.00000	.40000-01	6.0000	.2317	.2826	.2527	.9538	.1007-01	.1098-01	7.357	40.16	584.1
81	.00000	.50000-01	7.0000	.1959	.2393	.2159	.9489	.8514-02	.9383-02	6.171	40.72	589.9
81	.00000	.60000-01	8.0000	.2018	.2464	.2239	.9454	.8768-02	.9731-02	6.360	39.58	589.3
81	.00000	.70000-01	9.0000	.1716	.2095	.1918	.9418	.7456-02	.8334-02	5.418	36.90	588.1
81	.00000	.80000-01	10.000	.1422	.1734	.1597	.9390	.6179-02	.6941-02	4.514	30.80	584.2
81	.00000	.90000-01	11.000	.1334	.1624	.1503	.9371	.5799-02	.6531-02	4.278	26.79	576.9
81	.00000	.10000+00	12.000	.1228	.1494	.1388	.9352	.5339-02	.6033-02	3.953	23.44	574.3
81	.00000	.12000	13.000	.1054	.1279	.1196	.9326	.4581-02	.5198-02	3.417	18.80	568.6
81	.00000	.13000	14.000	.1037	.1259	.1179	.9317	.4508-02	.5125-02	3.359	19.44	569.6
81	.00000	.14000	15.000	.1010	.1227	.1150	.9311	.4388-02	.4997-02	3.263	20.49	571.1
81	.00000	.15000	16.000	.1038	.1262	.1184	.9306	.4513-02	.5147+02	3.345	20.39	573.6
81	.00000	.16000	17.000	.1023	.1243	.1168	.9300	.4444-02	.5074-02	3.294	20.09	573.3
81	.00000	.17000	18.000	.1000	.1216	.1144	.9293	.4347-02	.4971-02	3.215	20.15	575.1
81	.00000	.18000	19.000	.9748-01	.1185	.1116	.9289	.4236-02	.4848-02	3.137	19.67	574.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA14)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
81	.00000	.20000	21.000	.9610-01	.1168	.1103	.9276	.4177-02	.4792-02	3.097	19.43	573.2
81	.00000	.25000	23.000	.8589-01	.1045	.9905-01	.9254	.3733-02	.4305-02	2.756	17.26	576.2
81	.00000	.30000	24.000	.8105-01	.9862-01	.9347-01	.9254	.3522-02	.4062-02	2.599	16.27	576.8
81	.00000	.35000	25.000	.8300-01	.1011	.9576-01	.9254	.3607-02	.4162-02	2.654	16.60	578.9
81	.00000	.40000	26.000	.8042-01	.9804-01	.9287-01	.9254	.3495-02	.4036-02	2.556	16.43	583.2
81	.00000	.45000	1027.0	.7178-01	.8757-01	.8293-01	.9254	.3119-02	.3604-02	2.274	15.03	585.8
81	.00000	.50000	1028.0	.6699-01	.8171-01	.7739-01	.9254	.2911-02	.3363-02	2.124	14.48	585.2
81	.00000	.55000	1029.0	.7314-01	.8950-01	.8468-01	.9254	.3179-02	.3680-02	2.286	16.55	595.4
81	.00000	.60000	1030.0	.5995-01	.7328-01	.6936-01	.9254	.2606-02	.3014-02	1.884	13.66	591.6
81	.00000	.65000	1031.0	.5638-01	.6893-01	.6524-01	.9254	.2450-02	.2835-02	1.769	12.82	592.7
81	.00000	.70000	1032.0	.6133-01	.7486-01	.7089-01	.9254	.2665-02	.3081-02	1.938	14.56	587.6
81	.00000	.75000	1033.0	.6524-01	.7968-01	.7544-01	.9254	.2835-02	.3279-02	2.057	14.94	589.2
81	.00000	.80000	1034.0	.8422-01	.1029	.9743-01	.9254	.3660-02	.4234-02	2.647	19.20	591.5
81	.00000	.85000	1035.0	.9570-01	.1170	.1120	.9200	.4159-02	.4869-02	3.000	22.49	593.3
81	10.000	.10000+00	45.000	.1339	.1628	.1628	.9000	.5820-02	.7077-02	4.308	26.26	574.4
81	14.000	.50000-01	44.000	.1917	.2336	.2336	.9000	.8331-02	.1015-01	6.105	41.71	581.9
81	20.000	.10000+00	207.00	.1817	.2215	.2215	.9000	.7896-02	.9628-02	5.769	33.15	584.0
81	20.000	.15000	211.00	.1157	.1406	.1406	.9000	.5028-02	.6110-02	3.730	23.40	572.8
81	22.000	.50000-01	202.00	.2352	.2865	.2865	.9000	.1022-01	.1245-01	7.494	40.96	581.4
81	24.000	.20000	48.000	.8334-01	.1015	.1015	.9000	.3622-02	.4410-02	2.665	23.34	578.8
81	24.500	.10000+00	208.00	.1882	.2296	.2296	.9000	.8178-02	.9980-02	5.957	37.13	586.3
81	25.500	.15000	212.00	.1207	.1472	.1472	.9000	.5246-02	.6396-02	3.836	33.51	583.6
81	31.500	.20000	215.00	.8614-01	.1051	.1051	.9000	.3744-02	.4569-02	2.725	27.01	586.7
81	35.000	.50000-01	203.00	.1690	.2054	.2054	.9000	.7346-02	.8926-02	5.454	34.23	572.2
81	35.000	.20000	216.00	.9055-01	.1105	.1105	.9000	.3935-02	.4802-02	2.866	28.41	586.5
81	39.000	.10000+00	209.00	.9204-01	.1114	.1114	.9000	.4000-02	.4840-02	3.029	19.15	557.4
81	40.000	.15000	213.00	.1510	.1845	.1845	.9000	.6561-02	.8019-02	4.743	34.40	591.7
81	40.000	.20000	217.00	.8837-01	.1080	.1080	.9000	.3841-02	.4695-02	2.775	30.18	592.1
81	42.500	.50000-01	204.00	.7899-01	.9546-01	.9546-01	.9000	.3433-02	.4149-02	2.615	17.58	552.8
81	45.500	.15000	214.00	.8089-01	.9780-01	.9780-01	.9000	.3515-02	.4250-02	2.673	15.59	554.3
81	51.000	.20000	218.00	.4230-01	.5107-01	.5107-01	.9000	.1838-02	.2219-02	1.408	8.941	548.8
81	60.000	.50000-01	205.00	.2550-01	.3071-01	.3071-01	.9000	.1108-02	.1334-02	.8603	5.824	538.5
81	67.500	.20000	219.00	.2432-01	.2935-01	.2935-01	.9000	.1057-02	.1275-02	.8108	6.011	547.4
81	96.500	.20000	1220.0	.2039-01	.2459-01	.2459-01	.9000	.8860-03	.1069-02	.6817	4.896	545.2
80	114.00	.40000	388.00	.1705-01	.2057-01	.2057-01	.9000	.7406-03	.8934-03	.5681	4.082	544.6
80	114.00	.50000	390.00	.2308-01	.2784-01	.2784-01	.9000	.1002-02	.1209-02	.7690	4.757	544.6
80	114.00	.70000	394.00	.1281-01	.1543-01	.1543-01	.9000	.5562-03	.6701-03	.4293	2.819	539.9
80	157.50	.40000	223.00	.3407-02	.4101-02	.4101-02	.9000	.1480-03	.1781-03	.1147	.7546	536.4
80	157.50	.50000	225.00	.7650-02	.9210-02	.9210-02	.9000	.3322-03	.4000-03	.2572	1.691	537.5
80	157.50	.70000	229.00	.6436-02	.7742-02	.7742-02	.9000	.2795-03	.3362-03	.2173	1.621	534.3
80	157.50	.80000	231.00	.6268-02	.7537-02	.7537-02	.9000	.2722-03	.3273-03	.2121	1.486	532.4
80	180.00	.40000	182.00	.1867-02	.2247-02	.2247-02	.9000	.8107-04	.9760-04	.6279-01	.5399	537.1
80	180.00	.50000	184.00	.2032-02	.2446-02	.2446-02	.9000	.8825-04	.1062-03	.6843-01	.6122	536.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA14)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TOI) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
80	180.00	.60000	186.00	.2893-02	.3482-02	.3482-02	.9000	.1257-03	.1512-03	.9747-01	.8721	536.0
80	180.00	.70000	188.00	.3393-02	.4082-02	.4082-02	.9000	.1473-03	.1773-03	.1144	1.024	535.2
80	180.00	.80000	190.00	.4890-02	.5882-02	.5882-02	.9000	.2124-03	.2555-03	.1652	1.608	533.9
80	315.00	.40000	234.00	.1440-02	.1733-02	.1733-02	.9000	.6255-04	.7527-04	.4854-01	.3620	535.5
80	315.00	.50000	236.00	.1774-02	.2134-02	.2134-02	.9000	.7703-04	.9269-04	.5982-01	.3718	535.2
80	315.00	.70000	240.00	.6557-02	.7891-02	.7891-02	.9000	.2848-03	.3427-03	.2210	1.648	535.5
80	315.00	.80000	242.00	.4779-02	.5747-02	.5747-02	.9000	.2076-03	.2496-03	.1617	1.132	532.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 85

OH84B 60-0 FUSELAGE

(R4UA14)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
133	3.692	8.000	35.03	-.6868-03	854.7	1352.	97.95	.8755-01	3.922	3881.	.2413-02	.7882-07
134	3.680	8.000	35.02	-.6917-03	852.6	1353.	98.02	.8735-01	3.913	3883.	.2405-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
133	.4917-01	.2106-01
134	.4912-01	.2109-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
133	.00000	.00000	1.0000	.5244	.6541	.5640	.9646	.2578-01	.2773-01	17.57	92.02	670.1
133	.00000	.50000-02	2.0000	.5250	.6666	.5399	.9870	.2581-01	.2655-01	16.43	105.3	715.0
133	.00000	.10000-01	3.0000	.4714	.5927	.4843	.9870	.2318-01	.2381-01	15.31	96.18	691.3
133	.00000	.20000-01	4.0000	.3456	.4251	.3661	.9701	.1699-01	.1800-01	12.28	65.60	628.8
134	.00000	.30000-01	5.0000	.2586	.3156	.2785	.9603	.1270-01	.1368-01	9.503	51.36	604.4
134	.00000	.40000-01	6.0000	.2330	.2838	.2540	.9538	.1144-01	.1247-01	8.633	46.80	598.1
134	.00000	.50000-01	7.0000	.1975	.2412	.2176	.9489	.9699-02	.1069-01	7.235	47.35	606.7
134	.00000	.60000-01	8.0000	.2045	.2498	.2270	.9454	.1005-01	.1115-01	7.497	46.26	606.5
134	.00000	.70000-01	9.0000	.1742	.2126	.1947	.9418	.8554-02	.9561-02	6.397	43.21	604.9
134	.00000	.80000-01	10.000	.1412	.1721	.1585	.9390	.6937-02	.7787-02	5.239	35.51	597.5
134	.00000	.90000-01	11.000	.1340	.1629	.1508	.9371	.6580-02	.7407-02	5.011	31.16	591.0
134	.00000	.10000+00	12.000	.1239	.1505	.1399	.9352	.6084-02	.6871-02	4.653	27.41	587.8
134	.00000	.12000	13.000	.1072	.1299	.1215	.9326	.5263-02	.5968-02	4.062	22.21	580.9
134	.00000	.13000	14.000	.1036	.1257	.1177	.9317	.5089-02	.5783-02	3.921	22.55	582.2
134	.00000	.14000	15.000	.1017	.1235	.1158	.9311	.4997-02	.5689-02	3.828	23.85	586.6
134	.00000	.15000	16.000	.1056	.1283	.1204	.9306	.5187-02	.5911-02	3.973	24.07	586.8
134	.00000	.16000	17.000	.1035	.1257	.1181	.9300	.5082-02	.5799-02	3.893	23.58	586.6
134	.00000	.17000	18.000	.1008	.1225	.1152	.9293	.4951-02	.5659-02	3.783	23.55	586.6
134	.00000	.18000	19.000	.9872-01	.1199	.1129	.9289	.4849-02	.5547-02	3.708	23.09	588.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA14)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
134	.00000	.20000	21.000	.9745-01	.1183	.1117	.9276	.4786-02	.5488-02	3.667	22.85	586.5
134	.00000	.25000	23.000	.8599-01	.1045	.9911-01	.9254	.4224-02	.4868-02	3.221	20.04	590.1
134	.00000	.30000	24.000	.8111-01	.9862-01	.9349-01	.9254	.3984-02	.4592-02	3.035	18.87	590.9
134	.00000	.35000	25.000	.8321-01	.1013	.9597-01	.9254	.4087-02	.4714-02	3.101	19.26	593.8
134	.00000	.40000	26.000	.8398-01	.1023	.9696-01	.9254	.4125-02	.4762-02	3.109	19.82	598.9
134	.00000	.45000	1027.0	.7036-01	.8581-01	.8127-01	.9254	.3456-02	.3992-02	2.596	17.03	601.5
134	.00000	.50000	1028.0	.1102	.1331	.1264	.9254	.5411-02	.6208-02	4.254	29.28	566.5
134	.00000	.55000	1029.0	.6614-01	.8088-01	.7655-01	.9254	.3249-02	.3760-02	2.411	17.32	610.4
134	.00000	.60000	1030.0	.6301-01	.7704-01	.7292-01	.9254	.3095-02	.3582-02	2.297	16.51	610.3
134	.00000	.65000	1031.0	.6178-01	.7565-01	.7157-01	.9254	.3035-02	.3515-02	2.239	16.05	614.9
134	.00000	.70000	1032.0	.7387-01	.9040-01	.8554-01	.9254	.3629-02	.4201-02	2.685	19.94	612.7
134	.00000	.75000	1033.0	.8843-01	.1084	.1025	.9254	.4344-02	.5036-02	3.188	22.81	618.8
134	.00000	.80000	1034.0	.1211	.1488	.1406	.9254	.5948-02	.6908-02	4.316	30.76	627.0
134	.00000	.85000	1035.0	.1411	.1736	.1660	.9200	.6932-02	.8152-02	5.012	36.91	629.6
134	.00000	.10000+00	45.000	.1348	.1639	.1639	.9000	.6622-02	.8048-02	5.056	30.59	589.2
134	14.000	.50000-01	44.000	.1925	.2347	.2347	.9000	.9454-02	.1153-01	7.107	48.10	600.9
134	20.000	.10000+00	207.00	.1827	.2227	.2227	.9000	.8974-02	.1094-01	6.755	38.51	600.0
134	20.000	.15000	211.00	.1146	.1392	.1392	.9000	.5629-02	.6836-02	4.313	26.87	586.5
134	22.000	.50000-01	202.00	.2337	.2850	.2850	.9000	.1148-01	.1400-01	8.636	46.76	600.4
134	24.000	.20000	48.000	.8244-01	.1003	.1003	.9000	.4049-02	.4928-02	3.072	26.70	594.0
134	24.500	.10000+00	208.00	.1870	.2281	.2281	.9000	.9185-02	.1121-01	6.890	42.60	602.5
134	25.500	.15000	212.00	.1169	.1424	.1424	.9000	.5741-02	.6996-02	4.328	37.53	598.7
134	31.500	.20000	215.00	.8543-01	.1042	.1042	.9000	.4196-02	.5119-02	3.146	30.94	602.8
134	35.000	.50000-01	203.00	.1678	.2037	.2037	.9000	.8243-02	.1000-01	6.333	39.51	584.3
134	35.000	.20000	216.00	.9005-01	.1099	.1099	.9000	.4423-02	.5396-02	3.319	32.65	602.2
134	39.000	.10000+00	209.00	.9199-01	.1111	.1111	.9000	.4518-02	.5457-02	3.554	22.37	566.1
134	40.000	.15000	213.00	.1497	.1829	.1829	.9000	.7353-02	.8985-02	5.475	39.39	608.0
134	40.000	.20000	217.00	.8422-01	.1029	.1029	.9000	.4137-02	.5052-02	3.089	33.36	606.1
134	42.500	.50000-01	204.00	.7848-01	.9463-01	.9463-01	.9000	.3855-02	.4648-02	3.056	20.47	559.9
134	45.500	.15000	214.00	.8099-01	.9772-01	.9772-01	.9000	.3978-02	.4800-02	3.143	18.26	562.5
134	51.000	.20000	218.00	.4232-01	.5096-01	.5096-01	.9000	.2078-02	.2503-02	1.658	10.50	555.0
134	60.000	.50000-01	205.00	.2537-01	.3045-01	.3045-01	.9000	.1246-02	.1496-02	1.010	6.823	542.2
134	67.500	.20000	219.00	.2442-01	.2940-01	.2940-01	.9000	.1200-02	.1444-02	.9589	7.087	553.4
134	96.500	.20000	1220.0	.2074-01	.2495-01	.2495-01	.9000	.1019-02	.1225-02	.8172	5.854	550.6
133	114.00	.40000	388.00	.1615-01	.1942-01	.1942-01	.9000	.7938-03	.9547-03	.6366	4.562	549.8
133	114.00	.50000	390.00	.2929-01	.3525-01	.3525-01	.9000	.1440-02	.1733-02	1.152	7.097	552.2
133	114.00	.70000	394.00	.1280-01	.1538-01	.1538-01	.9000	.6294-03	.7561-03	.5080	3.327	544.7
133	157.50	.40000	223.00	.3830-02	.4595-02	.4595-02	.9000	.1883-03	.2259-03	.1530	1.005	539.1
133	157.50	.50000	225.00	.1195-01	.1435-01	.1435-01	.9000	.5875-03	.7053-03	.4753	3.117	542.6
133	157.50	.70000	229.00	.6872-02	.8240-02	.8240-02	.9000	.3378-03	.4051-03	.2749	2.048	537.8
133	157.50	.80000	231.00	.6311-02	.7564-02	.7564-02	.9000	.3103-03	.3719-03	.2531	1.769	536.0
133	180.00	.40000	182.00	.2307-02	.2769-02	.2769-02	.9000	.1134-03	.1361-03	.9197-01	.7892	541.0
133	180.00	.50000	184.00	.2971-02	.3565-02	.3565-02	.9000	.1461-03	.1753-03	.1185	1.058	540.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA14)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
133	180.00	.60000	186.00	.4511-02	.5412-02	.5412-02	.9000	.2218-03	.2661-03	.1800	1.607	540.0
133	180.00	.70000	188.00	.6270-02	.7524-02	.7524-02	.9000	.3083-03	.3699-03	.2502	2.234	540.2
133	180.00	.80000	190.00	.6583-02	.7895-02	.7895-02	.9000	.3237-03	.3882-03	.2633	2.558	538.1
133	315.00	.40000	234.00	.1509-02	.1810-02	.1810-02	.9000	.7421-04	.8900-04	.6034-01	.4494	538.5
133	315.00	.50000	236.00	.2222-02	.2665-02	.2665-02	.9000	.1093-03	.1310-03	.8987-01	.5516	538.3
133	315.00	.70000	240.00	.7695-02	.9231-02	.9231-02	.9000	.3783-03	.4539-03	.3073	2.287	539.5
133	315.00	.80000	242.00	.4673-02	.5601-02	.5601-02	.9000	.2297-03	.2754-03	.1874	1.310	535.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
202	.5125	7.900	39.95	-10.04	103.5	1263.	93.66	.1151-01	.5026	3748.	.3316-03	.7536-07
203	.4973	7.900	39.90	-10.06	99.51	1255.	93.06	.1106-01	.4831	3736.	.3207-03	.7489-07

RUN NUMBER	HREF BTU/ R	STN NO REF(R)
202	.1739-01	.5641-01
203	.1703-01	.5732-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
202	.00000	.00000	1.0000	.4605	.5628	.5014	.9551	.8009-02	.8721-02	5.565	30.62	567.9
202	.00000	.50000-02	2.0000	.5202	.6395	.5331	.9870	.9047-02	.9272-02	6.122	41.73	586.0
202	.00000	.10000-01	3.0000	.4758	.5838	.4875	.9870	.8276-02	.8480-02	5.652	37.48	579.8
202	.00000	.20000-01	4.0000	.3603	.4392	.3750	.9781	.6267-02	.6523-02	4.408	24.36	559.4
203	.00000	.30000-01	5.0000	.2692	.3275	.2847	.9693	.4585-02	.4850-02	3.232	17.95	549.7
203	.00000	.40000-01	6.0000	.2512	.3055	.2687	.9633	.4279-02	.4577-02	3.023	16.80	548.3
203	.00000	.50000-01	7.0000	.2149	.2616	.2320	.9587	.3661-02	.3952-02	2.578	17.34	550.7
203	.00000	.60000-01	8.0000	.2252	.2741	.2447	.9554	.3836-02	.4168-02	2.699	17.12	551.0
203	.00000	.70000-01	9.0000	.1954	.2378	.2137	.9520	.3329-02	.3640-02	2.342	16.25	550.9
203	.00000	.80000-01	10.000	.1589	.1932	.1746	.9493	.2706-02	.2974-02	1.909	13.25	549.3
203	.00000	.90000-01	11.000	.1527	.1856	.1684	.9475	.2601-02	.2868-02	1.842	11.71	546.6
203	.00000	.10000+00	12.000	.1415	.1719	.1566	.9456	.2410-02	.2667-02	1.709	10.28	545.7
203	.00000	.12000	13.000	.1286	.1562	.1430	.9430	.2191-02	.2435-02	1.558	8.676	543.7
203	.00000	.13000	14.000	.1262	.1532	.1405	.9422	.2149-02	.2394-02	1.527	8.955	544.0
203	.00000	.14000	15.000	.1191	.1447	.1328	.9416	.2029-02	.2263-02	1.439	9.153	545.4
203	.00000	.15000	16.000	.1222	.1484	.1364	.9411	.2081-02	.2323-02	1.476	9.127	545.4
203	.00000	.16000	17.000	.1209	.1468	.1351	.9405	.2059-02	.2301-02	1.461	9.035	545.2
203	.00000	.17000	18.000	.1192	.1449	.1335	.9399	.2031-02	.2273-02	1.439	9.149	546.3
203	.00000	.18000	19.000	.1156	.1404	.1295	.9394	.1963-02	.2205-02	1.396	8.880	545.5

DATE 23 FEB 60

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA15)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
203	.00000	.20000	21.000	.1138	.1382	.1277	.9391	.1938-02	.2176-02	1.376	8.757	544.6
203	.00000	.25000	23.000	.1047	.1273	.1181	.9360	.1784-02	.2012-02	1.264	8.037	546.2
203	.00000	.30000	24.000	.9995-01	.1215	.1127	.9360	.1703-02	.1920-02	1.205	7.661	546.8
203	.00000	.35000	25.000	.1003	.1219	.1131	.9360	.1708-02	.1927-02	1.210	7.689	546.7
203	.00000	.40000	26.000	.9855-01	.1198	.1112	.9360	.1679-02	.1894-02	1.187	7.768	547.3
203	.00000	.45000	1027.0	.8798-01	.1070	.9926-01	.9360	.1499-02	.1691-02	1.060	7.141	547.6
203	.00000	.50000	1028.0	.8087-01	.9830-01	.9122-01	.9360	.1378-02	.1554-02	.9747	6.775	547.1
203	.00000	.55000	1029.0	.8065-01	.9807-01	.9100-01	.9360	.1374-02	.1550-02	.9701	7.188	548.5
203	.00000	.60000	1030.0	.7432-01	.9035-01	.8384-01	.9360	.1266-02	.1428-02	.8951	6.635	547.6
203	.00000	.65000	1031.0	.6771-01	.8230-01	.7637-01	.9360	.1153-02	.1301-02	.8161	6.052	547.0
203	.00000	.70000	1032.0	.6812-01	.8281-01	.7685-01	.9360	.1160-02	.1309-02	.8206	6.293	547.5
203	.00000	.75000	1033.0	.6502-01	.7902-01	.7334-01	.9360	.1108-02	.1249-02	.7844	5.817	546.5
203	.00000	.80000	1034.0	.6572-01	.7984-01	.7411-01	.9360	.1119-02	.1262-02	.7939	5.891	545.5
203	.00000	.85000	1035.0	.6144-01	.7461-01	.7002-01	.9306	.1047-02	.1193-02	.7437	5.713	544.0
203	10.000	.10000+00	45.000	.1589	.1931	.1931	.9000	.2706-02	.3289-02	1.917	11.85	546.4
203	14.000	.50000-01	44.000	.2304	.2802	.2802	.9000	.3925-02	.4773-02	2.772	19.25	548.5
203	20.000	.10000+00	207.00	.2302	.2802	.2802	.9000	.3921-02	.4773-02	2.757	16.10	551.7
203	20.000	.15000	211.00	.1495	.1817	.1817	.9000	.2547-02	.3096-02	1.802	11.45	547.1
203	22.000	.50000-01	202.00	.2976	.3620	.3620	.9000	.5069-02	.6167-02	3.572	19.84	549.9
203	24.000	.20000	48.000	.1123	.1366	.1366	.9000	.1913-02	.2327-02	1.348	11.98	549.7
203	24.500	.10000+00	208.00	.2484	.3026	.3026	.9000	.4231-02	.5154-02	2.966	18.79	553.8
203	25.500	.15000	212.00	.1731	.2110	.2110	.9000	.2949-02	.3593-02	2.061	18.26	555.6
203	31.500	.20000	215.00	.1227	.1495	.1495	.9000	.2090-02	.2547-02	1.463	14.73	554.9
203	35.000	.50000-01	203.00	.2327	.2828	.2828	.9000	.3963-02	.4817-02	2.805	17.83	546.8
203	35.000	.20000	216.00	.1335	.1628	.1628	.9000	.2275-02	.2773-02	1.590	16.01	555.6
203	39.000	.10000+00	209.00	.1451	.1762	.1762	.9000	.2471-02	.3001-02	1.757	11.18	543.9
203	40.000	.15000	213.00	.2291	.2797	.2797	.9000	.3903-02	.4765-02	2.707	19.93	561.1
203	40.000	.20000	217.00	.1392	.1698	.1698	.9000	.2371-02	.2893-02	1.649	18.23	559.1
203	42.500	.50000-01	204.00	.1189	.1442	.1442	.9000	.2026-02	.2457-02	1.449	9.801	539.6
203	45.500	.15000	214.00	.1363	.1655	.1655	.9000	.2322-02	.2819-02	1.652	9.690	543.2
203	51.000	.20000	218.00	.8037-01	.9751-01	.9751-01	.9000	.1369-02	.1661-02	.9771	6.229	541.0
203	60.000	.50000-01	205.00	.3469-01	.4197-01	.4197-01	.9000	.5909-03	.7150-03	.4269	2.900	532.1
203	67.500	.20000	219.00	.4425-01	.5365-01	.5365-01	.9000	.7538-03	.9140-03	.5397	4.019	538.7
203	96.500	.20000	1220.0	.3550-01	.4303-01	.4303-01	.9000	.6047-03	.7330-03	.4335	3.125	537.6
202	114.00	.40000	388.00	.3727-01	.4512-01	.4512-01	.9000	.6483-03	.7848-03	.4704	3.393	537.0
202	114.00	.50000	390.00	.4647-01	.5626-01	.5626-01	.9000	.8083-03	.9785-03	.5865	3.643	537.0
202	114.00	.70000	394.00	.4339-01	.5250-01	.5250-01	.9000	.7546-03	.9131-03	.5492	3.615	534.9
202	157.50	.40000	223.00	.1328-02	.1605-02	.1605-02	.9000	.2311-04	.2791-04	.1694-01	.1118	529.4
202	157.50	.50000	225.00	.2823-02	.3413-02	.3413-02	.9000	.4910-04	.5936-04	.3586-01	.2364	532.2
202	157.50	.70000	229.00	.3919-02	.4733-02	.4733-02	.9000	.6817-04	.8231-04	.5009-01	.3750	527.9
202	157.50	.80000	231.00	.3082-02	.3721-02	.3721-02	.9000	.5361-04	.6472-04	.3945-01	.2771	526.8
202	180.00	.40000	182.00	.1771-02	.2140-02	.2140-02	.9000	.3080-04	.3722-04	.2257-01	.1948	529.9
202	180.00	.50000	184.00	.1829-02	.2210-02	.2210-02	.9000	.3182-04	.3844-04	.2333-01	.2094	529.5

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 90

OH84B 60-O FUSELAGE

(R40A15)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
202	180.00	.60000	186.00	.2787-02	.3366-02	.3366-02	.9000	.4847-04	.5854-04	.3559-01	.3196	528.5
202	180.00	.70000	188.00	.4706-02	.5684-02	.5684-02	.9000	.8185-04	.9886-04	.6005-01	.5393	529.0
202	180.00	.80000	190.00	.3141-02	.3792-02	.3792-02	.9000	.5463-04	.6596-04	.4016-01	.3923	527.5
202	315.00	.40000	234.00	.2923-02	.3531-02	.3531-02	.9000	.5083-04	.6142-04	.3725-01	.2786	530.0
202	315.00	.50000	236.00	.4057-02	.4902-02	.4902-02	.9000	.7056-04	.8526-04	.5169-01	.3221	530.2
202	315.00	.70000	240.00	.8390-02	.1014-01	.1014-01	.9000	.1459-03	.1763-03	.1070	.8006	529.4
202	315.00	.80000	242.00	.9888-02	.1194-01	.1194-01	.9000	.1720-03	.2077-03	.1263	.8861	528.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 91

OH84B 60-0 FUSELAGE

(R4UA15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
189	1.002	7.940	39.96	-10.05	203.7	1257.	92.34	.2191-01	.9670	3740.	.6404-03	.7431-07
190	1.004	7.940	39.95	-10.04	205.0	1261.	92.64	.2205-01	.9731	3746.	.6425-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
189	.2410-01	.4057-01
190	.2419-01	.4052-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
189	.00000	.00000	1.0000	.4552	.5610	.4973	.9551	.1097-01	.1199-01	7.308	39.77	590.6
189	.00000	.50000-02	2.0000	.5001	.6238	.5133	.9870	.1205-01	.1237-01	7.640	51.15	622.9
189	.00000	.10000-01	3.0000	.4630	.5753	.4750	.9870	.1116-01	.1145-01	7.183	46.86	613.0
189	.00000	.20000-01	4.0000	.3594	.4410	.3745	.9782	.8662-02	.9028-02	5.878	32.18	578.1
190	.00000	.30000-01	5.0000	.2701	.3298	.2860	.9694	.6536-02	.6919-02	4.556	25.12	563.7
190	.00000	.40000-01	6.0000	.2487	.3034	.2663	.9634	.6017-02	.6442-02	4.208	23.24	561.3
190	.00000	.50000-01	7.0000	.2134	.2606	.2306	.9588	.5162-02	.5578-02	3.591	23.99	565.0
190	.00000	.60000-01	8.0000	.2240	.2737	.2437	.9555	.5421-02	.5896-02	3.769	23.73	565.4
190	.00000	.70000-01	9.0000	.1943	.2373	.2128	.9521	.4701-02	.5149-02	3.270	22.53	565.1
190	.00000	.80000-01	10.000	.1582	.1930	.1741	.9494	.3829-02	.4212-02	2.681	18.51	560.5
190	.00000	.90000-01	11.000	.1519	.1850	.1676	.9476	.3674-02	.4055-02	2.588	16.37	556.3
190	.00000	.10000+00	12.000	.1424	.1735	.1578	.9457	.3446-02	.3817-02	2.429	14.54	555.8
190	.00000	.12000	13.000	.1268	.1542	.1411	.9431	.3068-02	.3413-02	2.173	12.05	552.4
190	.00000	.13000	14.000	.1253	.1525	.1397	.9423	.3032-02	.3379-02	2.145	12.52	553.0
190	.00000	.14000	15.000	.1184	.1441	.1321	.9417	.2864-02	.3197-02	2.021	12.80	554.9
190	.00000	.15000	16.000	.1224	.1490	.1368	.9412	.2962-02	.3309-02	2.090	12.86	554.9
190	.00000	.16000	17.000	.1204	.1466	.1347	.9406	.2914-02	.3260-02	2.057	12.66	554.8
190	.00000	.17000	18.000	.1179	.1436	.1321	.9400	.2852-02	.3195-02	2.009	12.71	556.1
190	.00000	.18000	19.000	.1163	.1417	.1304	.9395	.2815-02	.3156-02	1.985	12.57	555.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 92

OH84B 60-0 FUSELAGE

(R4UA15)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
190	.00000	.20000	21.000	.1142	.1389	.1283	.9383	.2762-02	.3104-02	1.952	12.36	554.0
190	.00000	.25000	23.000	.1044	.1272	.1179	.9361	.2526-02	.2852-02	1.780	11.26	556.2
190	.00000	.30000	24.000	.9914-01	.1207	.1119	.9361	.2399-02	.2708-02	1.690	10.69	556.1
190	.00000	.35000	25.000	.9949-01	.1212	.1123	.9361	.2407-02	.2718-02	1.695	10.73	556.3
190	.00000	.40000	26.000	.9327-01	.1137	.1053	.9361	.2257-02	.2549-02	1.586	10.32	557.8
190	.00000	.45000	1027.0	.8237-01	.1004	.9304-01	.9361	.1993-02	.2251-02	1.400	9.383	558.3
190	.00000	.50000	1028.0	.7861-01	.9579-01	.8879-01	.9361	.1902-02	.2148-02	1.337	9.245	557.7
190	.00000	.55000	1029.0	.7773-01	.9480-01	.8783-01	.9361	.1881-02	.2125-02	1.317	9.699	560.4
190	.00000	.60000	1030.0	.7220-01	.8802-01	.8157-01	.9361	.1747-02	.1974-02	1.225	9.025	559.5
190	.00000	.65000	1031.0	.6489-01	.7912-01	.7332-01	.9361	.1570-02	.1774-02	1.100	8.102	560.1
190	.00000	.70000	1032.0	.6540-01	.7976-01	.7391-01	.9361	.1582-02	.1788-02	1.108	8.444	560.4
190	.00000	.75000	1033.0	.6038-01	.7363-01	.6822-01	.9361	.1461-02	.1651-02	1.023	7.537	560.2
190	.00000	.80000	1034.0	.6343-01	.7733-01	.7166-01	.9361	.1535-02	.1734-02	1.077	7.935	559.2
190	.00000	.85000	1035.0	.5803-01	.7070-01	.6626-01	.9307	.1404-02	.1603-02	.9876	7.537	557.2
190	10.000	.10000+00	45.000	.1583	.1928	.1928	.9000	.3830-02	.4665-02	2.697	16.59	556.4
190	14.000	.50000-01	44.000	.2302	.2811	.2811	.9000	.5571-02	.6800-02	3.885	26.79	563.3
190	20.000	.10000+00	207.00	.2286	.2793	.2793	.9000	.5531-02	.6758-02	3.840	22.26	566.4
190	20.000	.15000	211.00	.1483	.1807	.1807	.9000	.3589-02	.4373-02	2.525	15.97	557.1
190	22.000	.50000-01	202.00	.2946	.3598	.3598	.9000	.7128-02	.8705-02	4.958	27.33	565.0
190	24.000	.20000	48.000	.1110	.1354	.1354	.9000	.2685-02	.3275-02	1.878	16.59	561.3
190	24.500	.10000+00	208.00	.2453	.3000	.3000	.9000	.5934-02	.7259-02	4.099	25.75	570.0
190	25.500	.15000	212.00	.1702	.2084	.2084	.9000	.4118-02	.5041-02	2.836	24.92	572.1
190	31.500	.20000	215.00	.1209	.1479	.1479	.9000	.2925-02	.3577-02	2.024	20.24	568.9
190	35.000	.50000-01	203.00	.2316	.2823	.2823	.9000	.5603-02	.6831-02	3.928	24.81	559.6
190	35.000	.20000	216.00	.1312	.1605	.1605	.9000	.3175-02	.3884-02	2.193	21.92	570.0
190	39.000	.10000+00	209.00	.1447	.1760	.1760	.9000	.3501-02	.4258-02	2.482	15.74	551.7
190	40.000	.15000	213.00	.2288	.2808	.2808	.9000	.5536-02	.6793-02	3.771	27.51	579.5
190	40.000	.20000	217.00	.1281	.1571	.1571	.9000	.3100-02	.3801-02	2.120	23.24	576.7
190	42.500	.50000-01	204.00	.1174	.1425	.1425	.9000	.2840-02	.3448-02	2.028	13.67	546.6
190	45.500	.15000	214.00	.1396	.1698	.1698	.9000	.3378-02	.4108-02	2.398	14.01	551.0
190	51.000	.20000	218.00	.7968-01	.9672-01	.9672-01	.9000	.1928-02	.2340-02	1.380	8.779	544.9
190	60.000	.50000-01	205.00	.3339-01	.4039-01	.4039-01	.9000	.8079-03	.9772-03	.5877	3.990	533.1
190	67.500	.20300	219.00	.4415-01	.5354-01	.5354-01	.9000	.1068-02	.1295-02	.7671	5.701	542.5
190	96.500	.20000	1220.0	.3488-01	.4228-01	.4228-01	.9000	.8440-03	.1023-02	.6082	4.380	540.0
189	114.00	.40000	388.00	.3376-01	.4095-01	.4095-01	.9000	.8137-03	.9871-03	.5820	4.188	541.4
189	114.00	.50000	390.00	.3993-01	.4843-01	.4843-01	.9000	.9625-03	.1167-02	.6890	4.270	540.9
189	114.00	.70000	394.00	.7845-01	.9537-01	.9537-01	.9000	.1891-02	.2299-02	1.340	8.761	548.2
189	157.50	.40000	223.00	.1390-02	.1680-02	.1680-02	.9000	.3350-04	.4050-04	.2435-01	.1607	529.7
189	157.50	.50000	225.00	.2360-02	.2857-02	.2857-02	.9000	.5689-04	.6887-04	.4112-01	.2708	533.9
189	157.50	.70000	229.00	.5795-02	.7004-02	.7004-02	.9000	.1397-03	.1688-03	.1017	.7688	528.9
189	157.50	.80000	231.00	.5158-02	.6233-02	.6233-02	.9000	.1243-03	.1502-03	.9059-01	.6358	528.1
189	180.00	.40000	182.00	.2466-02	.2982-02	.2982-02	.9000	.5945-04	.7189-04	.4317-01	.3725	530.5
189	180.00	.50000	184.00	.1408-02	.1702-02	.1702-02	.9000	.3393-04	.4102-04	.2468-01	.2216	529.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 93

OH84B 60-0 FUSELAGE

(R4UA15)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
189	180.00	.60000	186.00	.4463-02	.5395-02	.5395-02	.9000	.1076-03	.1300-03	.7823-01	.7024	529.4
189	180.00	.70000	188.00	.3075-02	.3717-02	.3717-02	.9000	.7413-04	.8959-04	.5397-01	.4848	528.6
189	180.00	.80000	190.00	.2940-02	.3553-02	.3553-02	.9000	.7088-04	.8564-04	.5167-01	.5047	527.6
189	315.00	.40000	234.00	.2419-02	.2925-02	.2925-02	.9000	.5831-04	.7052-04	.4234-01	.3166	530.5
189	315.00	.50000	236.00	.3544-02	.4286-02	.4286-02	.9000	.8542-04	.1033-03	.6199-01	.3861	531.0
189	315.00	.70000	240.00	.6520-02	.7883-02	.7883-02	.9000	.1572-03	.1900-03	.1142	.8541	530.1
189	315.00	.80000	242.00	.1112-01	.1345-01	.1345-01	.9000	.2681-03	.3241-03	.1948	1.365	530.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 94

OH84B 60-0 FUSELAGE

(R4UA15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
171	2.002	7.980	39.98	-10.09	434.9	1302.	94.76	.4528-01	2.018	3808.	.1290-02	.7626-07
172	2.004	7.980	39.98	-10.09	434.9	1301.	94.69	.4528-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
171	.3504-01	.2870-01
172	.3503-01	.2868-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
171	.00000	.00000	1.0000	.4566	.5643	.4995	.9550	.1600-01	.1750-01	10.91	58.54	619.6
171	.00000	.50000-02	2.0000	.5107	.6411	.5246	.9870	.1789-01	.1838-01	11.45	75.27	661.6
171	.00000	.10000-01	3.0000	.4697	.5865	.4822	.9870	.1646-01	.1689-01	10.76	68.98	648.1
171	.00000	.20000-01	4.0000	.3581	.4407	.3734	.9782	.1255-01	.1308-01	8.716	47.04	607.1
172	.00000	.30000-01	5.0000	.2658	.3259	.2817	.9695	.9313-02	.9868-02	6.574	35.70	594.7
172	.00000	.40000-01	6.0000	.2418	.2961	.2591	.9635	.8471-02	.9079-02	6.012	32.71	590.9
172	.00000	.50000-01	7.0000	.2096	.2571	.2268	.9589	.7343-02	.7946-02	5.167	33.98	596.9
172	.00000	.60000-01	8.0000	.2198	.2696	.2394	.9555	.7699-02	.8389-02	5.416	33.57	597.2
172	.00000	.70000-01	9.0000	.1913	.2346	.2098	.9521	.6701-02	.7352-02	4.717	31.98	596.8
172	.00000	.80000-01	10.000	.1557	.1907	.1716	.9495	.5455-02	.6013-02	3.864	26.26	592.4
172	.00000	.90000-01	11.000	.1514	.1851	.1673	.9476	.5303-02	.5862-02	3.788	23.60	586.4
172	.00000	.10000+00	12.000	.1413	.1726	.1567	.9457	.4950-02	.5491-02	3.546	20.92	584.3
172	.00000	.12000	13.000	.1247	.1521	.1389	.9432	.4367-02	.4866-02	3.148	17.22	579.9
172	.00000	.13000	14.000	.1239	.1512	.1383	.9424	.4341-02	.4846-02	3.124	17.98	581.0
172	.00000	.14000	15.000	.1182	.1443	.1321	.9417	.4140-02	.4629-02	2.970	18.54	583.3
172	.00000	.15000	16.000	.1212	.1481	.1357	.9413	.4247-02	.4753-02	3.046	18.48	583.5
172	.00000	.16000	17.000	.1202	.1468	.1347	.9407	.4212-02	.4719-02	3.022	18.34	583.1
172	.00000	.17000	18.000	.1174	.1434	.1317	.9400	.4111-02	.4614-02	2.944	18.37	584.5
172	.00000	.18000	19.000	.1150	.1405	.1292	.9396	.4029-02	.4525-02	2.890	18.03	583.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA15)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
172	.00000	.20000	21.000	.1125	.1373	.1266	.9383	.3941-02	.4436-02	2.835	17.71	581.4
172	.00000	.25000	23.000	.1034	.1264	.1170	.9362	.3624-02	.4099-02	2.597	16.21	584.0
172	.00000	.30000	24.000	.9961-01	.1217	.1127	.9362	.3490-02	.3948-02	2.498	15.58	584.9
172	.00000	.35000	25.000	.9977-01	.1219	.1129	.9362	.3495-02	.3954-02	2.501	15.59	585.3
172	.00000	.40000	26.000	.9324-01	.1141	.1055	.9362	.3267-02	.3697-02	2.328	14.93	587.9
172	.00000	.45000	1027.0	.8223-01	.1006	.9309-01	.9362	.2881-02	.3261-02	2.050	13.54	588.9
172	.00000	.50000	1028.0	.7553-01	.9238-01	.8542-01	.9362	.2646-02	.2995-02	1.887	12.86	587.5
172	.00000	.55000	1029.0	.7707-01	.9441-01	.8731-01	.9362	.2700-02	.3059-02	1.912	13.86	592.7
172	.00000	.60000	1030.0	.7104-01	.8699-01	.8046-01	.9362	.2489-02	.2819-02	1.765	12.80	591.3
172	.00000	.65000	1031.0	.6287-01	.7700-01	.7121-01	.9362	.2203-02	.2495-02	1.562	11.33	591.6
172	.00000	.70000	1032.0	.6506-01	.7951-01	.7360-01	.9362	.2279-02	.2579-02	1.631	12.28	585.0
172	.00000	.75000	1033.0	.6040-01	.7377-01	.6830-01	.9362	.2116-02	.2393-02	1.518	11.06	583.2
172	.00000	.80000	1034.0	.6452-01	.7876-01	.7294-01	.9362	.2260-02	.2555-02	1.626	11.85	581.2
172	.00000	.85000	1035.0	.6082-01	.7418-01	.6949-01	.9307	.2131-02	.2434-02	1.538	11.61	578.8
172	10.000	.10000+00	45.000	.1590	.1945	.1945	.9000	.5570-02	.6813-02	3.970	24.04	587.9
172	14.000	.50000-01	44.000	.2274	.2790	.2790	.9000	.7968-02	.9775-02	5.606	38.01	597.1
172	20.000	.10000+00	207.00	.2304	.2831	.2831	.9000	.8073-02	.9919-02	5.640	32.12	602.1
172	20.000	.15000	211.00	.1469	.1798	.1798	.9000	.5148-02	.6299-02	3.662	22.79	589.2
172	22.000	.50000-01	202.00	.2906	.3567	.3567	.9000	.1018-01	.1250-01	7.137	38.67	599.5
172	24.000	.20000	48.000	.1100	.1349	.1349	.9000	.3854-02	.4725-02	2.720	23.63	595.0
172	24.500	.10000+00	208.00	.2457	.3022	.3022	.9000	.8609-02	.1059-01	5.991	37.00	604.7
172	25.500	.15000	212.00	.1679	.2067	.2067	.9000	.5880-02	.7242-02	4.069	35.11	608.7
172	31.500	.20000	215.00	.1206	.1484	.1484	.9000	.4226-02	.5199-02	2.936	28.83	605.9
172	35.000	.50000-01	203.00	.2281	.2791	.2791	.9000	.7992-02	.9780-02	5.685	35.38	589.2
172	35.000	.20000	216.00	.1307	.1609	.1609	.9000	.4578-02	.5635-02	3.175	31.15	607.2
172	39.000	.10000+00	209.00	.1449	.1768	.1768	.9000	.5076-02	.6193-02	3.660	22.88	579.6
172	40.000	.15000	213.00	.2258	.2790	.2790	.9000	.7911-02	.9774-02	5.400	38.65	618.2
172	40.000	.20000	217.00	.1311	.1618	.1618	.9000	.4595-02	.5668-02	3.156	33.96	613.8
172	42.500	.50000-01	204.00	.1154	.1404	.1404	.9000	.4043-02	.4918-02	2.957	19.71	569.2
172	45.500	.15000	214.00	.1385	.1689	.1689	.9000	.4853-02	.5917-02	3.509	20.23	577.5
172	51.000	.20000	218.00	.8009-01	.9740-01	.9740-01	.9000	.2806-02	.3412-02	2.054	12.92	568.5
172	60.000	.50000-01	205.00	.3277-01	.3964-01	.3964-01	.9000	.1148-02	.1389-02	.8616	5.799	550.1
172	67.500	.20000	219.00	.4320-01	.5246-01	.5246-01	.9000	.1514-02	.1838-02	1.116	8.204	563.6
172	96.500	.20000	1220.0	.3520-01	.4269-01	.4269-01	.9000	.1233-02	.1496-02	.9138	6.516	559.6
171	114.00	.40000	388.00	.3358-01	.4069-01	.4069-01	.9000	.1177-02	.1426-02	.8766	6.260	556.7
171	114.00	.50000	390.00	.3675-01	.4451-01	.4451-01	.9000	.1288-02	.1559-02	.9618	5.920	554.8
171	114.00	.70000	394.00	.9531-01	.1158	.1158	.9000	.3340-02	.4058-02	2.455	15.91	566.5
171	157.50	.40000	223.00	.2376-02	.2866-02	.2866-02	.9000	.8324-04	.1004-03	.6335-01	.4159	540.5
171	157.50	.50000	225.00	.4906-02	.5919-02	.5919-02	.9000	.1719-03	.2074-03	.1308	.8580	541.1
171	157.50	.70000	229.00	.8057-02	.9718-02	.9718-02	.9000	.2823-03	.3405-03	.2150	1.600	540.0
171	157.50	.80000	231.00	.8599-02	.1037-01	.1037-01	.9000	.3013-03	.3632-03	.2299	1.605	538.6
171	180.00	.40000	182.00	.4515-02	.5449-02	.5449-02	.9000	.1582-03	.1909-03	.1203	1.032	541.6
171	180.00	.50000	184.00	.2212-02	.2668-02	.2668-02	.9000	.7751-04	.9348-04	.5903-01	.5271	540.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA15)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
171	180.00	.60000	186.00	.7321-02	.8833-02	.8833-02	.9000	.2565-03	.3095-03	.1951	1.741	541.2
171	180.00	.70000	188.00	.3468-02	.4182-02	.4182-02	.9000	.1215-03	.1465-03	.9265-01	.8277	539.2
171	180.00	.80000	190.00	.6021-02	.7259-02	.7259-02	.9000	.2110-03	.2544-03	.1610	1.564	538.5
171	315.00	.40000	234.00	.2403-02	.2899-02	.2899-02	.9000	.8419-04	.1016-03	.6400-01	.4759	541.5
171	315.00	.50000	236.00	.3151-02	.3802-02	.3802-02	.9000	.1104-03	.1332-03	.8393-01	.5200	541.6
171	315.00	.70000	240.00	.5662-02	.6829-02	.6829-02	.9000	.1984-03	.2393-03	.1510	1.124	540.4
171	315.00	.80000	242.00	.8749-02	.1055-01	.1055-01	.9000	.3066-03	.3697-03	.2335	1.629	539.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
99	2.993	7.990	40.02	-10.10	670.6	1326.	96.29	.6925-01	3.095	3843.	.1941-02	.7748-07
100	3.008	7.990	40.00	-10.10	673.1	1325.	96.21	.6951-01	3.106	3842.	.1950-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
99	.4353-01	.2343-01
100	.4360-01	.2338-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TOI) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
99	.00000	.00000	1.0000	.4534	.5603	.4961	.9550	.1974-01	.2159-01	13.72	73.18	630.7
99	.00000	.50000-02	2.0000	.5113	.6434	.5254	.9870	.2226-01	.2287-01	14.38	93.66	679.7
99	.00000	.10000-01	3.0000	.4682	.5858	.4808	.9870	.2038-01	.2092-01	13.46	85.64	665.1
99	.00000	.20000-01	4.0000	.3582	.4401	.3733	.9782	.1559-01	.1625-01	11.11	59.76	613.4
100	.00000	.30000-01	5.0000	.2690	.3294	.2850	.9695	.1173-01	.1242-01	8.472	45.84	602.3
100	.00000	.40000-01	6.0000	.2479	.3031	.2655	.9635	.1081-01	.1158-01	7.853	42.58	598.0
100	.00000	.50000-01	7.0000	.2105	.2581	.2277	.9589	.9178-02	.9930-02	6.598	43.19	605.8
100	.00000	.60000-01	8.0000	.2205	.2703	.2401	.9556	.9613-02	.1047-01	6.902	42.58	606.7
100	.00000	.70000-01	9.0000	.1919	.2353	.2105	.9522	.8368-02	.9178-02	6.009	40.55	606.6
100	.00000	.80000-01	10.000	.1549	.1895	.1707	.9495	.6755-02	.7441-02	4.901	33.20	599.1
100	.00000	.90000-01	11.000	.1503	.1836	.1660	.9477	.6553-02	.7239-02	4.789	29.73	593.9
100	.00000	.10000+00	12.000	.1400	.1709	.1552	.9458	.6104-02	.6766-02	4.476	26.32	591.4
100	.00000	.12000	13.000	.1246	.1518	.1387	.9433	.5432-02	.6048-02	4.011	21.87	586.3
100	.00000	.13000	14.000	.1232	.1503	.1375	.9424	.5373-02	.5994-02	3.957	22.69	588.2
100	.00000	.14000	15.000	.1183	.1444	.1322	.9418	.5158-02	.5764-02	3.781	23.50	591.6
100	.00000	.15000	16.000	.1212	.1479	.1356	.9413	.5284-02	.5911-02	3.871	23.39	592.0
100	.00000	.16000	17.000	.1197	.1462	.1341	.9407	.5221-02	.5848-02	3.824	23.10	592.2
100	.00000	.17000	18.000	.1169	.1428	.1311	.9401	.5096-02	.5718-02	3.721	23.10	594.4
100	.00000	.18000	19.000	.1131	.1381	.1270	.9396	.4933-02	.5537-02	3.612	22.44	592.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA15)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
100	.00000	.20000	21.000	.1122	.1370	.1263	.9384	.4891-02	.5505-02	3.583	22.26	592.2
100	.00000	.25000	23.000	.1025	.1253	.1160	.9362	.4470-02	.5057-02	3.254	20.18	596.6
100	.00000	.30000	24.000	.9843-01	.1203	.1114	.9362	.4291-02	.4855-02	3.123	19.36	597.1
100	.00000	.35000	25.000	.9951-01	.1205	.1115	.9362	.4295-02	.4861-02	3.117	19.31	598.9
100	.00000	.40000	26.000	.9399-01	.1151	.1065	.9362	.4098-02	.4642-02	2.957	18.81	603.1
100	.00000	.45000	1027.0	.8222-01	.1007	.9313-01	.9362	.3585-02	.4061-02	2.584	16.93	603.8
100	.00000	.50000	1028.0	.7649-01	.9367-01	.8663-01	.9362	.3335-02	.3777-02	2.409	16.29	602.4
100	.00000	.55000	1029.0	.7933-01	.9741-01	.8998-01	.9362	.3459-02	.3923-02	2.469	17.74	610.9
100	.00000	.60000	1030.0	.7579-01	.9305-01	.8596-01	.9362	.3304-02	.3748-02	2.359	16.95	610.7
100	.00000	.65000	1031.0	.7307-01	.8982-01	.8293-01	.9362	.3186-02	.3616-02	2.264	16.23	614.2
100	.00000	.70000	1032.0	.8234-01	.1011	.9340-01	.9362	.3590-02	.4072-02	2.562	19.04	610.9
100	.00000	.75000	1033.0	.8698-01	.1068	.9868-01	.9362	.3793-02	.4303-02	2.703	19.41	612.0
100	.00000	.80000	1034.0	.1018	.1251	.1155	.9362	.4438-02	.5036-02	3.158	22.66	613.1
100	.00000	.85000	1035.0	.1051	.1291	.1206	.9308	.4583-02	.5260-02	3.265	24.25	612.2
100	10.000	.10000+00	45.000	.1586	.1938	.1938	.9000	.6914-02	.8449-02	5.041	30.41	595.5
100	14.000	.50000-01	44.000	.2267	.2777	.2777	.9000	.9885-02	.1211-01	7.131	48.20	603.3
100	20.000	.10000+00	207.00	.2293	.2815	.2815	.9000	.9997-02	.1227-01	7.139	40.49	610.6
100	20.000	.15000	211.00	.1472	.1801	.1801	.9000	.6420-02	.7852-02	4.662	28.88	598.6
100	22.000	.50000-01	202.00	.2900	.3560	.3560	.9000	.1265-01	.1552-01	9.040	48.73	609.8
100	24.000	.20000	48.000	.1095	.1343	.1343	.9000	.4773-02	.5857-02	3.417	29.49	608.7
100	24.500	.10000+00	208.00	.2437	.2998	.2998	.9000	.1062-01	.1307-01	7.522	46.19	616.6
100	25.500	.15000	212.00	.1508	.1850	.1850	.9000	.6575-02	.8065-02	4.712	40.68	607.9
100	31.500	.20000	215.00	.1190	.1465	.1465	.9000	.5188-02	.6389-02	3.657	35.66	619.9
100	35.000	.50000-01	203.00	.2293	.2800	.2800	.9000	.9996-02	.1221-01	7.310	45.40	593.4
100	35.000	.20000	216.00	.1288	.1587	.1587	.9000	.5618-02	.6922-02	3.951	38.51	621.3
100	39.000	.10000+00	209.00	.1452	.1768	.1768	.9000	.6332-02	.7711-02	4.690	29.26	583.9
100	40.000	.15000	213.00	.2261	.2798	.2798	.9000	.9858-02	.1220-01	6.798	48.26	635.0
100	40.000	.20000	217.00	.1293	.1599	.1599	.9000	.5636-02	.6972-02	3.898	41.55	633.0
100	42.500	.50000-01	204.00	.1165	.1415	.1415	.9000	.5083-02	.6169-02	3.827	25.48	571.8
100	45.500	.15000	214.00	.1405	.1711	.1711	.9000	.6127-02	.7458-02	4.547	26.15	582.5
100	51.000	.20000	218.00	.7966-01	.9667-01	.9667-01	.9000	.3473-02	.4215-02	2.615	16.42	571.7
100	60.000	.50000-01	205.00	.3257-01	.3927-01	.3927-01	.9000	.1420-02	.1712-02	1.103	7.434	547.8
100	67.500	.20000	219.00	.4300-01	.5212-01	.5212-01	.9000	.1875-02	.2272-02	1.419	10.42	567.6
100	96.500	.20000	1220.0	.3478-01	.4209-01	.4209-01	.9000	.1517-02	.1835-02	1.158	8.247	561.4
99	114.00	.40000	388.00	.3293-01	.3981-01	.3981-01	.9000	.1433-02	.1733-02	1.099	7.836	559.1
99	114.00	.50000	390.00	.5041-01	.6094-01	.6094-01	.9000	.2194-02	.2653-02	1.682	10.33	559.0
99	114.00	.70000	394.00	.7533-01	.9125-01	.9125-01	.9000	.3279-02	.3972-02	2.493	16.16	565.5
99	157.50	.40000	223.00	.3476-02	.4181-02	.4181-02	.9000	.1513-03	.1820-03	.1190	.7813	539.4
99	157.50	.50000	225.00	.6198-02	.7457-02	.7457-02	.9000	.2698-03	.3246-03	.2118	1.390	540.6
99	157.50	.70000	229.00	.9072-02	.1091-01	.1091-01	.9000	.3949-03	.4749-03	3.105	2.311	539.4
99	157.50	.80000	231.00	.9722-02	.1169-01	.1169-01	.9000	.4232-03	.5089-03	.3331	2.326	538.4
99	180.00	.40000	182.00	.5522-02	.6644-02	.6644-02	.9000	.2403-03	.2892-03	.1887	1.619	540.7
99	180.00	.50000	184.00	.3036-02	.3651-02	.3651-02	.9000	.1321-03	.1589-03	.1039	.9286	539.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA15)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
99	180.00	.60000	186.00	.7029-02	.8457-02	.8457-02	.9000	.3059-03	.3681-03	.2402	2.144	540.6
99	180.00	.70000	188.00	.4354-02	.5237-02	.5237-02	.9000	.1895-03	.2279-03	.1491	1.332	538.9
99	180.00	.80000	190.00	.6636-02	.7980-02	.7980-02	.9000	.2889-03	.3473-03	.2274	2.209	538.3
99	315.00	.40000	234.00	.2404-02	.2892-02	.2892-02	.9000	.1046-03	.1259-03	.8220-01	.6116	540.0
99	315.00	.50000	236.00	.3567-02	.4291-02	.4291-02	.9000	.1553-03	.1868-03	.1220	.7565	539.9
99	315.00	.70000	240.00	.5397-02	.6492-02	.6492-02	.9000	.2349-03	.2826-03	.1846	1.374	539.9
99	315.00	.80000	242.00	.7850-02	.9441-02	.9441-02	.9000	.3417-03	.4109-03	.2687	1.875	539.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
199	.4996	7.900	39.96	-3.996	99.13	1248.	92.54	.1102-01	.4813	3726.	.3213-03	.7447-07
200	.5083	7.900	39.97	-3.996	100.7	1247.	92.47	.1119-01	.4891	3724.	.3268-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
199	.1699-01	.5724-01
200	.1712-01	.5675-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
199	.00000	.00000	1.0000	.4748	.5803	.5170	.9551	.8064-02	.8782-02	5.534	30.55	561.5
199	.00000	.50000-02	2.0000	.5244	.6445	.5374	.9870	.8907-02	.9128-02	5.964	40.82	578.1
199	.00000	.10000-01	3.0000	.4843	.5940	.4963	.9870	.8227-02	.8429-02	5.559	37.00	572.0
199	.00000	.20000-01	4.0000	.3650	.4447	.3799	.9782	.6200-02	.6453-02	4.315	23.94	551.6
200	.00000	.30000-01	5.0000	.2798	.3411	.2961	.9694	.4790-02	.5069-02	3.324	18.43	552.8
200	.00000	.40000-01	6.0000	.2560	.3119	.2739	.9635	.4383-02	.4690-02	3.049	16.92	551.0
200	.00000	.50000-01	7.0000	.2209	.2693	.2385	.9589	.3781-02	.4083-02	2.621	17.61	553.5
200	.00000	.60000-01	8.0000	.2287	.2789	.2486	.9555	.3915-02	.4255-02	2.714	17.19	553.5
200	.00000	.70000-01	9.0000	.1968	.2399	.2153	.9521	.3369-02	.3686-02	2.337	16.20	552.9
200	.00000	.80000-01	10.000	.1627	.1982	.1789	.9495	.2785-02	.3063-02	1.938	13.45	550.8
200	.00000	.90000-01	11.000	.1548	.1884	.1708	.9476	.2650-02	.2923-02	1.853	11.77	547.5
200	.00000	.10000+00	12.000	.1426	.1735	.1579	.9457	.2441-02	.2702-02	1.710	10.29	546.2
200	.00000	.12000	13.000	.1282	.1559	.1426	.9432	.2195-02	.2441-02	1.543	8.598	543.6
200	.00000	.13000	14.000	.1262	.1534	.1406	.9423	.2160-02	.2406-02	1.518	8.903	543.8
200	.00000	.14000	15.000	.1194	.1453	.1332	.9417	.2045-02	.2281-02	1.435	9.127	545.1
200	.00000	.15000	16.000	.1240	.1508	.1384	.9413	.2123-02	.2370-02	1.489	9.212	545.1
200	.00000	.16000	17.000	.1219	.1482	.1362	.9406	.2086-02	.2332-02	1.465	9.061	544.6
200	.00000	.17000	18.000	.1210	.1471	.1354	.9400	.2071-02	.2318-02	1.452	9.235	545.6
200	.00000	.18000	19.000	.1187	.1443	.1330	.9396	.2032-02	.2277-02	1.427	9.078	544.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA17)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
200	.00000	.20000	21.000	.1155	.1404	.1297	.9383	.1977-02	.2220-02	1.391	8.854	543.3
200	.00000	.25000	23.000	.1057	.1285	.1192	.9361	.1809-02	.2040-02	1.270	8.084	544.4
200	.00000	.30000	24.000	.1002	.1218	.1130	.9361	.1715-02	.1934-02	1.203	7.654	545.1
200	.00000	.35000	25.000	.1013	.1231	.1142	.9361	.1733-02	.1955-02	1.216	7.735	545.2
200	.00000	.40000	26.000	.9964-01	.1212	.1124	.9361	.1706-02	.1925-02	1.194	7.816	546.5
200	.00000	.45000	1027.0	.8253-01	.1004	.9313-01	.9361	.1413-02	.1594-02	.9884	6.663	547.1
200	.00000	.50000	1028.0	.8008-01	.9742-01	.9035-01	.9361	.1371-02	.1547-02	.9601	6.676	546.4
200	.00000	.55000	1029.0	.7861-01	.9568-01	.8872-01	.9361	.1346-02	.1519-02	.9400	6.967	548.1
200	.00000	.60000	1030.0	.7275-01	.8853-01	.8210-01	.9361	.1245-02	.1405-02	.8711	6.458	547.3
200	.00000	.65000	1031.0	.6494-01	.7902-01	.7328-01	.9361	.1112-02	.1254-02	.7780	5.769	546.9
200	.00000	.70000	1032.0	.6500-01	.7910-01	.7335-01	.9361	.1113-02	.1256-02	.7778	5.964	547.6
200	.00000	.75000	1033.0	.6172-01	.7509-01	.6964-01	.9361	.1057-02	.1192-02	.7394	5.483	546.8
200	.00000	.80000	1034.0	.6438-01	.7832-01	.7264-01	.9361	.1102-02	.1243-02	.7721	5.728	546.1
200	.00000	.85000	1035.0	.5962-01	.7250-01	.6799-01	.9307	.1021-02	.1164-02	.7161	5.499	545.0
200	10.000	.10000+00	45.000	.1556	.1893	.1893	.9000	.2664-02	.3241-02	1.864	11.52	546.8
200	14.000	.50000-01	44.000	.2203	.2683	.2683	.9000	.3771-02	.4593-02	2.628	18.24	549.9
200	20.000	.10000+00	207.00	.2154	.2626	.2626	.9000	.3688-02	.4495-02	2.560	14.95	552.5
200	20.000	.15000	211.00	.1418	.1724	.1724	.9000	.2427-02	.2952-02	1.700	10.81	545.9
200	22.000	.50000-01	202.00	.2703	.3292	.3292	.9000	.4627-02	.5635-02	3.222	17.89	550.2
200	24.000	.20000	48.000	.1049	.1277	.1277	.9000	.1796-02	.2185-02	1.257	11.18	547.0
200	24.500	.10000+00	208.00	.2212	.2696	.2696	.9000	.3786-02	.4615-02	2.628	16.66	552.6
200	25.500	.15000	212.00	.1543	.1881	.1881	.9000	.2642-02	.3221-02	1.832	16.25	553.2
200	31.500	.20000	215.00	.1093	.1332	.1332	.9000	.1871-02	.2280-02	1.302	13.13	551.1
200	35.000	.50000-01	203.00	.1945	.2366	.2366	.9000	.3330-02	.4051-02	2.332	14.83	546.3
200	35.000	.20000	216.00	.1155	.1407	.1407	.9000	.1977-02	.2408-02	1.375	13.87	551.2
200	39.000	.10000+00	209.00	.1107	.1344	.1344	.9000	.1896-02	.2302-02	1.340	8.546	539.9
200	40.000	.15000	213.00	.1871	.2282	.2282	.9000	.3202-02	.3907-02	2.213	16.34	555.5
200	40.000	.20000	217.00	.1137	.1388	.1388	.9000	.1947-02	.2376-02	1.343	14.86	556.8
200	42.500	.50000-01	204.00	.9249-01	.1122	.1122	.9000	.1583-02	.1921-02	1.122	7.596	538.1
200	45.500	.15000	214.00	.1029	.1248	.1248	.9000	.1761-02	.2137-02	1.246	7.327	538.8
200	51.000	.20000	218.00	.5656-01	.6858-01	.6858-01	.9000	.9683-03	.1174-02	.6892	4.407	535.0
200	60.000	.50000-01	205.00	.2629-01	.3183-01	.3183-01	.9000	.4501-03	.5449-03	.3225	2.192	530.2
200	67.500	.20000	219.00	.3096-01	.3751-01	.3751-01	.9000	.5300-03	.6422-03	.3782	2.824	533.1
200	96.500	.20000	1220.0	.2585-01	.3131-01	.3131-01	.9000	.4425-03	.5360-03	.3162	2.286	532.1
199	114.00	.40000	388.00	.2651-01	.3210-01	.3210-01	.9000	.4502-03	.5452-03	.3225	2.333	531.4
199	114.00	.50000	390.00	.2696-01	.3264-01	.3264-01	.9000	.4579-03	.5544-03	.3282	2.045	530.9
199	114.00	.70000	394.00	.1433-01	.1733-01	.1733-01	.9000	.2433-03	.2943-03	.1753	1.158	527.3
199	157.50	.40000	223.00	.1627-02	.1967-02	.1967-02	.9000	.2763-04	.3341-04	.1992-01	.1317	526.7
199	157.50	.50000	225.00	.2079-02	.2518-02	.2518-02	.9000	.3531-04	.4276-04	.2529-01	.1668	531.5
199	157.50	.70000	229.00	.4195-02	.5070-02	.5070-02	.9000	.7125-04	.8611-04	.5151-01	.3863	524.7
199	157.50	.80000	231.00	.3110-02	.3759-02	.3759-02	.9000	.5283-04	.6384-04	.3823-01	.2688	524.1
199	180.00	.40000	182.00	.2898-02	.3505-02	.3505-02	.9000	.4922-04	.5954-04	.3546-01	.3064	527.4
199	180.00	.50000	184.00	.2260-02	.2733-02	.2733-02	.9000	.3838-04	.4641-04	.2769-01	.2490	526.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA17)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
199	180.00	.60000	186.00	.2411-02	.2914-02	.2914-02	.9000	.4095-04	.4950-04	.2958-01	.2662	525.3
199	180.00	.70000	188.00	.2873-02	.3473-02	.3473-02	.9000	.4880-04	.5899-04	.3525-01	.3172	525.3
199	180.00	.80000	190.00	.4170-02	.5040-02	.5040-02	.9000	.7082-04	.8560-04	.5118-01	.5006	524.9
199	180.00	.40000	234.00	.1812-02	.2191-02	.2191-02	.9000	.3077-04	.3721-04	.2219-01	.1662	526.7
199	315.00	.50000	236.00	.2915-02	.3525-02	.3525-02	.9000	.4951-04	.5988-04	.3569-01	.2228	526.9
199	315.00	.70000	240.00	.3399-02	.4108-02	.4108-02	.9000	.5773-04	.6978-04	.4172-01	.3128	525.1
199	315.00	.80000	242.00	.2383-02	.2879-02	.2879-02	.9000	.4047-04	.4891-04	.2927-01	.2058	524.4

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
186	.9941	7.940	39.96	-3.989	203.8	1264.	92.86	.2192-01	.9674	3751.	.6372-03	.7472-07
187	1.008	7.940	39.96	-3.991	205.0	1257.	92.34	.2205-01	.9731	3740.	.6445-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
186	.2413-01	.4070-01
187	.2418-01	.4044-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
186	.00000	.00000	1.0000	.4688	.5748	.5111	.9551	.1131-01	.1233-01	7.749	42.41	578.7
186	.00000	.50000-02	2.0000	.5181	.6412	.5314	.9870	.1250-01	.1282-01	8.235	55.62	605.1
186	.00000	.10000-01	3.0000	.4775	.5891	.4896	.9870	.1152-01	.1182-01	7.690	50.57	596.4
186	.00000	.20000-01	4.0000	.3582	.4374	.3729	.9782	.8644-02	.9001-02	6.030	33.21	566.1
187	.00000	.30000-01	5.0000	.2760	.3371	.2922	.9694	.6674-02	.7065-02	4.628	25.53	563.3
187	.00000	.40000-01	6.0000	.2522	.3078	.2701	.9634	.6099-02	.6530-02	4.244	23.44	560.8
187	.00000	.50000-01	7.0000	.2182	.2666	.2358	.9589	.5275-02	.5701-02	3.651	24.39	564.7
187	.00000	.60000-01	8.0000	.2266	.2769	.2465	.9555	.5480-02	.5961-02	3.792	23.88	564.7
187	.00000	.70000-01	9.0000	.1956	.2389	.2142	.9521	.4729-02	.5179-02	3.275	22.57	564.1
187	.00000	.80000-01	10.000	.1585	.1934	.1744	.9494	.3832-02	.4217-02	2.670	18.44	559.9
187	.00000	.90000-01	11.000	.1521	.1853	.1679	.9476	.3679-02	.4060-02	2.579	16.32	555.4
187	.00000	.10000+00	12.000	.1420	.1729	.1573	.9457	.3433-02	.3803-02	2.409	14.43	554.8
187	.00000	.12000	13.000	.1255	.1527	.1397	.9432	.3036-02	.3378-02	2.142	11.89	551.1
187	.00000	.13000	14.000	.1235	.1503	.1377	.9423	.2987-02	.3330-02	2.106	12.30	551.7
187	.00000	.14000	15.000	.1188	.1447	.1326	.9417	.2873-02	.3207-02	2.019	12.79	553.9
187	.00000	.15000	16.000	.1219	.1485	.1363	.9413	.2949-02	.3295-02	2.072	12.76	553.9
187	.00000	.16000	17.000	.1212	.1476	.1356	.9406	.2932-02	.3280-02	2.061	12.69	553.7
187	.00000	.17000	18.000	.1184	.1443	.1327	.9400	.2864-02	.3209-02	2.009	12.72	555.1
187	.00000	.18000	19.000	.1168	.1422	.1309	.9396	.2823-02	.3166-02	1.983	12.55	554.5

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OM84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OM84B 60-0 FUSELAGE

(R4UA17)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
187	.00000	.20000	21.000	.1140	.1388	.1281	.9383	.2757-02	.3099-02	1.940	12.29	553.1
187	.00000	.25000	23.000	.1034	.1260	.1168	.9361	.2501-02	.2824-02	1.754	11.10	555.3
187	.00000	.30000	24.000	.9823-01	.1197	.1109	.9361	.2375-02	.2682-02	1.666	10.54	555.3
187	.00000	.35000	25.000	.9935-01	.1211	.1122	.9361	.2402-02	.2713-02	1.683	10.65	556.0
187	.00000	.40000	26.000	.9524-01	.1161	.1076	.9361	.2303-02	.2602-02	1.609	10.47	557.9
187	.00000	.45000	1027.0	.8460-01	.1032	.9560-01	.9361	.2046-02	.2312-02	1.428	9.573	558.5
187	.00000	.50000	1028.0	.7598-01	.9263-01	.8584-01	.9361	.1837-02	.2076-02	1.285	8.884	557.7
187	.00000	.55000	1029.0	.7509-01	.9165-01	.8489-01	.9361	.1816-02	.2053-02	1.263	9.296	561.3
187	.00000	.60000	1030.0	.7067-01	.8623-01	.7988-01	.9361	.1709-02	.1932-02	1.190	8.763	560.4
187	.00000	.65000	1031.0	.6169-01	.7529-01	.6974-01	.9361	.1492-02	.1686-02	1.037	7.636	561.3
187	.00000	.70000	1032.0	.6252-01	.7635-01	.7070-01	.9361	.1512-02	.1710-02	1.049	7.984	562.7
187	.00000	.75000	1033.0	.5693-01	.6950-01	.6437-01	.9361	.1377-02	.1557-02	.9567	7.042	561.7
187	.00000	.80000	1034.0	.6152-01	.7509-01	.6955-01	.9361	.1488-02	.1682-02	1.035	7.618	561.2
187	.00000	.85000	1035.0	.5639-01	.6879-01	.6444-01	.9307	.1364-02	.1558-02	.9503	7.243	559.7
187	10.000	.10000+00	45.000	.1539	.1875	.1875	.9000	.3722-02	.4533-02	2.615	16.10	554.2
187	14.000	.50000-01	44.000	.2180	.2660	.2660	.9000	.5271-02	.6431-02	3.673	25.37	559.9
187	20.000	.10000+00	207.00	.2134	.2605	.2605	.9000	.5160-02	.6299-02	3.584	20.83	562.0
187	20.000	.15000	211.00	.1404	.1710	.1710	.9000	.3396-02	.4136-02	2.383	15.09	554.7
187	22.000	.50000-01	202.00	.2671	.3259	.3259	.9000	.6458-02	.7880-02	4.499	24.86	560.0
187	24.000	.20000	48.000	.1029	.1255	.1255	.9000	.2489-02	.3036-02	1.738	15.37	558.5
187	24.500	.10000+00	208.00	.2196	.2683	.2683	.9000	.5311-02	.6488-02	3.680	23.19	563.8
187	25.500	.15000	212.00	.1509	.1844	.1844	.9000	.3648-02	.4460-02	2.520	22.21	565.9
187	31.500	.20000	215.00	.1070	.1307	.1307	.9000	.2588-02	.3160-02	1.795	18.00	563.1
187	35.000	.50000-01	203.00	.1911	.2327	.2327	.9000	.4622-02	.5626-02	3.255	20.63	552.5
187	35.000	.20000	216.00	.1127	.1377	.1377	.9000	.2726-02	.3329-02	1.890	18.95	563.3
187	39.000	.10000+00	209.00	.1108	.1345	.1345	.9000	.2678-02	.3253-02	1.906	12.13	544.9
187	40.000	.15000	213.00	.1846	.2259	.2259	.9000	.4465-02	.5463-02	3.071	22.53	568.8
187	40.000	.20000	217.00	.1133	.1385	.1385	.9000	.2739-02	.3350-02	1.887	20.77	567.7
187	42.500	.50000-01	204.00	.8982-01	.1089	.1089	.9000	.2172-02	.2634-02	1.555	10.52	540.6
187	45.500	.15000	214.00	.1009	.1224	.1224	.9000	.2439-02	.2961-02	1.740	10.21	543.2
187	51.000	.20000	218.00	.5628-01	.6824-01	.6824-01	.9000	.1361-02	.1650-02	.9754	6.222	539.9
187	60.000	.50000-01	205.00	.2556-01	.3092-01	.3092-01	.9000	.6182-03	.7477-03	.4486	3.049	531.0
187	67.500	.20000	219.00	.3058-01	.3706-01	.3706-01	.9000	.7396-03	.8962-03	.5317	3.961	537.7
187	96.500	.20000	1220.0	.2463-01	.2983-01	.2983-01	.9000	.5955-03	.7214-03	.4290	3.095	536.4
186	114.00	.40000	388.00	.2511-01	.3040-01	.3040-01	.9000	.6061-03	.7337-03	.4405	3.177	536.9
186	114.00	.50000	390.00	.2702-01	.3270-01	.3270-01	.9000	.6521-03	.7892-03	.4744	2.947	536.2
186	114.00	.70000	394.00	.1604-01	.1939-01	.1939-01	.9000	.3871-03	.4680-03	.2829	1.864	532.7
186	157.50	.40000	223.00	.1722-02	.2080-02	.2080-02	.9000	.4156-04	.5021-04	.3051-01	.2013	529.7
186	157.50	.50000	225.00	.2890-02	.3495-02	.3495-02	.9000	.6974-04	.8434-04	.5092-01	.3354	533.6
186	157.50	.70000	229.00	.6340-02	.7656-02	.7656-02	.9000	.1530-03	.1848-03	.1125	.8424	528.3
186	157.50	.80000	231.00	.4442-02	.5362-02	.5362-02	.9000	.1072-03	.1294-03	.7898-01	.5546	527.0
186	180.00	.40000	182.00	.5819-02	.7034-02	.7034-02	.9000	.1404-03	.1697-03	.1028	.8865	531.6
186	180.00	.50000	184.00	.3923-02	.4739-02	.4739-02	.9000	.9467-04	.1144-03	.6946-01	.6234	530.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 105

OH84B 60-0 FUSELAGE

(R4UA17)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
186	180.00	.60000	186.00	.3459-02	.4177-02	.4177-02	.9000	.8347-04	.1008-03	.6137-01	.5512	528.5
186	180.00	.70000	188.00	.2934-02	.3542-02	.3542-02	.9000	.7080-04	.8549-04	.5208-01	.4679	528.0
186	180.00	.80000	190.00	.3583-02	.4326-02	.4326-02	.9000	.8648-04	.1044-03	.6367-01	.6220	527.4
186	315.00	.40000	234.00	.1684-02	.2035-02	.2035-02	.9000	.4065-04	.4911-04	.2983-01	.2231	530.0
186	315.00	.50000	236.00	.2507-02	.3029-02	.3029-02	.9000	.6051-04	.7310-04	.4439-01	.2767	530.0
186	315.00	.70000	240.00	.3380-02	.4081-02	.4081-02	.9000	.8156-04	.9848-04	.5999-01	.4491	528.2
186	315.00	.80000	242.00	.1960-02	.2366-02	.2366-02	.9000	.4731-04	.5711-04	.3485-01	.2448	527.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 106

OH84B 60-0 FUSELAGE

(R4UA17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
177	1.998	7.980	39.98	-4.010	434.6	1303.	94.84	.4525-01	2.017	3810.	.1288-02	.7631-07
178	2.003	7.980	39.97	-4.003	435.3	1302.	94.76	.4532-01	2.020	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
177	.3503-01	.2872-01
178	.3505-01	.2868-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
177	.00000	.00000	1.0000	.4693	.5775	.5124	.9550	.1644-01	.1795-01	11.43	61.67	607.5
177	.00000	.50000-02	2.0000	.5176	.6455	.5313	.9870	.1813-01	.1861-01	11.92	78.99	645.0
177	.00000	.10000-01	3.0000	.4762	.5910	.4885	.9870	.1668-01	.1711-01	11.18	72.26	632.3
177	.00000	.20000-01	4.0000	.3574	.4371	.3722	.9782	.1252-01	.1304-01	8.939	48.69	588.6
178	.00000	.30000-01	5.0000	.2719	.3316	.2878	.9694	.9533-02	.1009-01	6.896	37.76	578.3
178	.00000	.40000-01	6.0000	.2497	.3042	.2672	.9635	.8754-02	.9367-02	6.363	34.90	574.8
178	.00000	.50000-01	7.0000	.2142	.2614	.2313	.9589	.7507-02	.8110-02	5.410	35.86	581.0
178	.00000	.60000-01	8.0000	.2225	.2715	.2419	.9555	.7798-02	.8479-02	5.618	35.10	581.2
178	.00000	.70000-01	9.0000	.1916	.2339	.2098	.9521	.6718-02	.7353-02	4.843	33.10	580.8
178	.00000	.80000-01	10.000	.1594	.1943	.1753	.9495	.5587-02	.6145-02	4.048	27.72	577.1
178	.00000	.90000-01	11.000	.1515	.1844	.1671	.9476	.5312-02	.5858-02	3.881	24.38	570.9
178	.00000	.10000+00	12.000	.1413	.1718	.1564	.9457	.4953-02	.5482-02	3.630	21.59	568.7
178	.00000	.12000	13.000	.1226	.1488	.1362	.9432	.4297-02	.4775-02	3.171	17.49	563.6
178	.00000	.13000	14.000	.1219	.1481	.1357	.9423	.4274-02	.4759-02	3.150	18.27	564.7
178	.00000	.14000	15.000	.1176	.1430	.1312	.9417	.4123-02	.4598-02	3.025	19.02	568.1
178	.00000	.15000	16.000	.1218	.1481	.1360	.9413	.4269-02	.4766-02	3.132	19.15	568.1
178	.00000	.16000	17.000	.1190	.1447	.1330	.9406	.4173-02	.4664-02	3.061	18.71	568.1
178	.00000	.17000	18.000	.1166	.1418	.1305	.9400	.4086-02	.4574-02	2.990	18.79	569.9
178	.00000	.18000	19.000	.1155	.1405	.1294	.9396	.4049-02	.4536-02	2.965	18.63	569.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 107

OH84B 60-0 FUSELAGE

(R4UA17)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(10) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
178	.00000	.20000	21.000	.1122	.1364	.1260	.9383	.3935-02	.4418-02	2.887	18.16	567.9
178	.00000	.25000	23.000	.1020	.1241	.1151	.9361	.3575-02	.4034-02	2.612	16.41	570.9
178	.00000	.30000	24.000	.9723-01	.1184	.1097	.9361	.3408-02	.3847-02	2.487	15.61	572.1
178	.00000	.35000	25.000	.9900-01	.1206	.1118	.9361	.3471-02	.3918-02	2.527	15.85	573.6
178	.00000	.40000	26.000	.9501-01	.1158	.1073	.9361	.3331-02	.3762-02	2.414	15.56	577.0
178	.00000	.45000	1027.0	.8235-01	.1010	.9359-01	.9361	.2904-02	.3281-02	2.103	13.96	577.7
178	.00000	.50000	1028.0	.7568-01	.9227-01	.8549-01	.9361	.2653-02	.2997-02	1.920	13.14	577.9
178	.00000	.55000	1029.0	.7523-01	.9187-01	.8507-01	.9361	.2637-02	.2982-02	1.896	13.81	582.7
178	.00000	.60000	1030.0	.6828-01	.8335-01	.7719-01	.9361	.2393-02	.2706-02	1.723	12.56	581.6
178	.00000	.65000	1031.0	.6144-01	.7500-01	.6946-01	.9361	.2154-02	.2435-02	1.551	11.31	581.5
178	.00000	.70000	1032.0	.6249-01	.7613-01	.7056-01	.9361	.2191-02	.2474-02	1.592	12.04	575.1
178	.00000	.75000	1033.0	.6107-01	.7439-01	.6896-01	.9361	.2141-02	.2417-02	1.556	11.38	574.7
178	.00000	.80000	1034.0	.7065-01	.8607-01	.7978-01	.9361	.2477-02	.2796-02	1.800	13.16	574.9
178	.00000	.85000	1035.0	.7334-01	.8932-01	.8371-01	.9307	.2571-02	.2934-02	1.870	14.15	574.2
178	10.000	.10000+00	45.000	.1543	.1877	.1877	.9000	.5408-02	.6578-02	3.957	24.17	570.0
178	14.000	.50000-01	44.000	.2145	.2613	.2613	.9000	.7518-02	.9159-02	5.464	37.46	574.9
178	20.000	.10000+00	207.00	.2135	.2605	.2605	.9000	.7483-02	.9131-02	5.396	31.06	580.6
178	20.000	.15000	211.00	.1379	.1677	.1677	.9000	.4834-02	.5878-02	3.543	22.27	568.8
178	22.000	.50000-01	202.00	.2642	.3218	.3218	.9000	.9260-02	.1128-01	6.730	36.91	574.9
178	24.000	.20000	48.000	.1013	.1234	.1234	.9000	.3549-02	.4324-02	2.579	22.62	575.2
178	24.500	.10000+00	208.00	.2194	.2678	.2678	.9000	.7692-02	.9386-02	5.545	34.66	580.7
178	25.500	.15000	212.00	.1499	.1833	.1833	.9000	.5255-02	.6424-02	3.760	32.81	586.2
178	31.500	.20000	215.00	.1062	.1297	.1297	.9000	.3722-02	.4546-02	2.674	26.55	583.2
178	35.000	.50000-01	203.00	.1906	.2316	.2316	.9000	.6682-02	.8119-02	4.915	30.94	566.2
178	35.000	.20000	216.00	.1122	.1370	.1370	.9000	.3932-02	.4802-02	2.825	28.06	583.2
178	39.000	.10000+00	209.00	.1091	.1321	.1321	.9000	.3824-02	.4630-02	2.860	18.12	553.7
178	40.000	.15000	213.00	.1848	.2260	.2260	.9000	.6477-02	.7921-02	4.625	33.60	587.6
178	40.000	.20000	217.00	.1055	.1290	.1290	.9000	.3697-02	.4523-02	2.634	28.68	589.3
178	42.500	.50000-01	204.00	.8788-01	.1062	.1062	.9000	.3080-02	.3724-02	2.321	15.64	548.2
178	45.500	.15000	214.00	.9986-01	.1208	.1208	.9000	.3501-02	.4236-02	2.626	15.34	551.4
178	51.000	.20000	218.00	.5447-01	.6582-01	.6582-01	.9000	.1909-02	.2307-02	1.441	9.162	546.8
178	60.000	.50000-01	205.00	.2435-01	.2933-01	.2933-01	.9000	.8537-03	.1028-02	.6548	4.441	534.6
178	67.500	.20000	219.00	.2967-01	.3584-01	.3584-01	.9000	.1040-02	.1256-02	.7874	5.845	544.7
178	96.500	.20000	1220.0	.2505-01	.3023-01	.3023-01	.9000	.8780-03	.1060-02	.6663	4.791	542.8
177	114.00	.40000	388.00	.2384-01	.2877-01	.2877-01	.9000	.8350-03	.1008-02	.6342	4.560	543.1
177	114.00	.50000	390.00	.2887-01	.3484-01	.3484-01	.9000	.1011-02	.1220-02	.7691	4.764	542.2
177	114.00	.70000	394.00	.2978-01	.3593-01	.3593-01	.9000	.1043-02	.1259-02	.7943	5.212	541.3
177	157.50	.40000	223.00	.2376-02	.2860-02	.2860-02	.9000	.8322-04	.1002-03	.6403-01	.4219	533.2
177	157.50	.50000	225.00	.4288-02	.5167-02	.5167-02	.9000	.1502-03	.1810-03	.1150	.7566	536.8
177	157.50	.70000	229.00	.4741-02	.5704-02	.5704-02	.9000	.1661-03	.1998-03	.1281	.9571	531.5
177	157.50	.80000	231.00	.5593-02	.6727-02	.6727-02	.9000	.1959-03	.2357-03	.1513	1.061	530.2
177	180.00	.40000	182.00	.9728-02	.1172-01	.1172-01	.9000	.3408-03	.4106-03	.2612	2.247	536.2
177	180.00	.50000	184.00	.6717-02	.8089-02	.8089-02	.9000	.2353-03	.2834-03	.1807	1.618	534.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 108

OH84B 60-0 FUSELAGE

(R4UA17)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
177	180.00	.60000	186.00	.5486-02	.6603-02	.6603-02	.9000	.1922-03	.2313-03	.1479	1.325	533.2
177	180.00	.70000	188.00	.4403-02	.5300-02	.5300-02	.9000	.1542-03	.1857-03	.1187	1.064	533.0
177	180.00	.80000	190.00	.3323-02	.3998-02	.3998-02	.9000	.1164-03	.1401-03	.8979-01	.8754	531.3
177	315.00	.40000	234.00	.1728-02	.2081-02	.2081-02	.9000	.6054-04	.7288-04	.4658-01	.3478	533.3
177	315.00	.50000	236.00	.2208-02	.2657-02	.2657-02	.9000	.7734-04	.9309-04	.5956-01	.3707	532.6
177	315.00	.70000	240.00	.4721-02	.5682-02	.5682-02	.9000	.1654-03	.1991-03	.1274	.5317	532.4
177	315.00	.80000	242.00	.3033-02	.3649-02	.3649-02	.9000	.1063-03	.1278-03	.8209-01	.5755	530.2

DATE 23 FEB 80

OH-34B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 109

OH84B 60-0 FUSELAGE

(R4UA17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
95	2.992	7.990	39.99	-4.021	670.3	1326.	96.29	.6922-01	3.093	3843.	.1940-02	.7748-07
96	2.988	7.990	40.00	-4.027	670.3	1327.	96.36	.6922-01	3.093	3845.	.1939-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
95	.4352-01	.2344-01
96	.4352-01	.2345-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
95	.00000	.00000	1.0000	.4654	.5736	.5086	.9550	.2025-01	.2213-01	14.23	76.24	622.9
95	.00000	.50000-02	2.0000	.5156	.6455	.5294	.9870	.2244-01	.2304-01	14.78	96.85	667.1
95	.00000	.10000-01	3.0000	.4758	.5927	.4883	.9870	.2071-01	.2125-01	13.92	89.07	653.3
95	.00000	.20000-01	4.0000	.3584	.4387	.3733	.9782	.1560-01	.1624-01	11.29	61.12	601.6
96	.00000	.30000-01	5.0000	.2732	.3343	.2893	.9695	.1189-01	.1259-01	8.619	46.64	601.7
96	.00000	.40000-01	6.0000	.2500	.3056	.2677	.9635	.1088-01	.1165-01	7.935	43.04	597.3
96	.00000	.50000-01	7.0000	.2140	.2621	.2314	.9589	.9313-02	.1007-01	6.726	44.06	604.5
96	.00000	.60000-01	8.0000	.2223	.2723	.2420	.9556	.9675-02	.1053-01	6.988	43.17	604.4
96	.00000	.70000-01	9.0000	.1921	.2352	.2105	.9522	.8358-02	.9162-02	6.043	40.84	603.6
96	.00000	.80000-01	10.000	.1558	.1903	.1715	.9495	.6779-02	.7463-02	4.952	33.59	596.2
96	.00000	.90000-01	11.000	.1503	.1834	.1660	.9477	.6542-02	.7224-02	4.816	29.95	590.6
96	.00000	.10000+00	12.000	.1407	.1714	.1558	.9458	.6122-02	.6782-02	4.523	26.64	587.8
96	.00000	.12000	13.000	.1234	.1501	.1373	.9433	.5370-02	.5974-02	4.000	21.86	581.8
96	.00000	.13000	14.000	.1223	.1489	.1363	.9424	.5323-02	.5932-02	3.956	22.74	583.4
96	.00000	.14000	15.000	.1164	.1443	.1322	.9418	.5154-02	.5755-02	3.811	23.74	587.2
96	.00000	.15000	16.000	.1221	.1488	.1365	.9413	.5314-02	.5940-02	3.929	23.79	587.4
96	.00000	.16000	17.000	.1203	.1465	.1346	.9407	.5234-02	.5857-02	3.870	23.44	587.3
96	.00000	.17000	19.000	.1174	.1432	.1316	.9401	.5111-02	.5729-02	3.769	23.45	589.3
96	.00000	.18000	19.000	.1140	.1389	.1278	.9396	.4961-02	.5564-02	3.668	22.84	587.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA17)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	N(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
96	.00000	.20000	21.000	.1119	.1364	.1258	.9384	.4872-02	.5477-02	3.607	22.48	586.3
96	.00000	.25000	23.000	.1009	.1230	.1140	.9362	.4391-02	.4960-02	3.238	20.15	589.2
96	.00000	.30000	24.000	.9596-01	.1170	.1084	.9362	.4176-02	.4718-02	3.080	19.17	589.2
96	.00000	.35000	25.000	.9751-01	.1189	.1102	.9362	.4244-02	.4795-02	3.124	19.42	590.6
96	.00000	.40000	26.000	.9477-01	.1158	.1072	.9362	.4125-02	.4664-02	3.019	19.29	594.8
96	.00000	.45000	1027.0	.8310-01	.1015	.9396-01	.9362	.3617-02	.4089-02	2.647	17.43	594.6
96	.00000	.50000	1028.0	.7764-01	.9449-01	.8761-01	.9362	.3379-02	.3813-02	2.515	17.17	582.5
96	.00000	.55000	1029.0	.7718-01	.9445-01	.8737-01	.9362	.3359-02	.3802-02	2.437	17.59	601.1
96	.00000	.60000	1030.0	.7570-01	.9267-01	.8571-01	.9362	.3295-02	.3730-02	2.388	17.23	602.0
96	.00000	.65000	1031.0	.7736-01	.9478-01	.8764-01	.9362	.3367-02	.3814-02	2.431	17.51	604.8
96	.00000	.70000	1032.0	.9530-01	.1168	.1080	.9362	.4147-02	.4700-02	2.988	22.26	606.2
96	.00000	.75000	1033.0	.1186	.1456	.1345	.9362	.5160-02	.5854-02	3.684	26.44	612.7
96	.00000	.80000	1034.0	.1513	.1862	.1718	.9362	.6585-02	.7478-02	4.563	33.37	618.6
96	.00000	.85000	1035.0	.1711	.2107	.1967	.9308	.7445-02	.8560-02	5.251	38.82	621.4
96	10.000	.10000+00	45.000	.1538	.1876	.1876	.9000	.6692-02	.8164-02	4.924	29.77	590.9
96	14.000	.50000-01	44.000	.2149	.2627	.2627	.9000	.9352-02	.1143-01	6.812	46.16	598.3
96	20.000	.10000+00	207.00	.2133	.2611	.2611	.9000	.9283-02	.1137-01	6.722	38.28	602.6
96	20.000	.15000	211.00	.1369	.1670	.1670	.9000	.5959-02	.7269-02	4.388	27.29	590.3
96	22.000	.50000-01	202.00	.2628	.3217	.3217	.9000	.1144-01	.1400-01	8.288	44.84	602.1
96	24.000	.20000	48.000	.1007	.1230	.1230	.9000	.4381-02	.5355-02	3.196	27.73	597.2
96	24.500	.10000+00	208.00	.2187	.2680	.2680	.9000	.9517-02	.1166-01	6.861	42.35	605.8
96	25.500	.15000	212.00	.1403	.1716	.1716	.9000	.6105-02	.7470-02	4.433	38.40	600.6
96	31.500	.20000	215.00	.1060	.1299	.1299	.9000	.4611-02	.5654-02	3.317	32.55	607.2
96	35.000	.50000-01	203.00	.1892	.2303	.2303	.9000	.8234-02	.1002-01	6.117	38.17	583.9
96	35.000	.20000	216.00	.1115	.1366	.1366	.9000	.4853-02	.5945-02	3.503	34.42	604.8
96	39.000	.10000+00	209.00	.1090	.1322	.1322	.9000	.4744-02	.5755-02	3.584	22.50	571.3
96	40.000	.15000	213.00	.1841	.2262	.2262	.9000	.8011-02	.9845-02	5.707	40.93	614.3
96	40.000	.20000	217.00	.1076	.1321	.1321	.9000	.4681-02	.5748-02	3.348	36.07	611.5
96	42.500	.50000-01	204.00	.8836-01	.1070	.1070	.9000	.3845-02	.4655-02	2.932	19.60	564.1
96	45.500	.15000	214.00	.1015	.1230	.1230	.9000	.4417-02	.5352-02	3.352	19.42	567.7
96	51.000	.20000	218.00	.5509-01	.6661-01	.6661-01	.9000	.2398-02	.2899-02	1.840	11.62	559.3
96	60.000	.50000-01	205.00	.2395-01	.2885-01	.2885-01	.9000	.1042-02	.1256-02	.8138	5.489	545.8
96	67.500	.20000	219.00	.3022-01	.3651-01	.3651-01	.9000	.1315-02	.1589-02	1.013	7.478	556.3
96	96.500	.20000	1220.0	.2531-01	.3055-01	.3055-01	.9000	.1102-02	.1329-02	.8525	6.100	552.7
95	114.00	.40000	388.00	.2238-01	.2696-01	.2696-01	.9000	.9737-03	.1173-02	.7586	5.445	546.6
95	114.00	.50000	390.00	.3185-01	.3838-01	.3838-01	.9000	.1386-02	.1670-02	1.080	6.674	546.5
95	114.00	.70000	394.00	.4970-01	.5997-01	.5997-01	.9000	.2163-02	.2609-02	1.674	10.93	551.6
95	157.50	.40000	223.00	.2439-02	.2931-02	.2931-02	.9000	.1062-03	.1275-03	.8392-01	.5524	535.1
95	157.50	.50000	225.00	.1246-01	.1499-01	.1499-01	.9000	.5423-03	.6525-03	.4259	2.796	540.3
95	157.50	.70000	229.00	.5099-02	.6126-02	.6126-02	.9000	.2219-03	.2666-03	.1755	1.309	534.8
95	157.50	.80000	231.00	.5583-02	.6707-02	.6707-02	.9000	.2430-03	.2919-03	.1923	1.345	534.4
95	180.00	.40000	182.00	.7368-02	.8857-02	.8857-02	.9000	.3206-03	.3854-03	.2527	2.173	537.4
95	180.00	.50000	184.00	.6668-02	.8014-02	.8014-02	.9000	.2902-03	.3487-03	.2290	2.048	536.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA17)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
95	180.00	.60000	186.00	.5832-02	.7011-02	.7011-02	.9000	.2538-03	.3051-03	.2002	1.790	536.9
95	180.00	.70000	188.00	.4899-02	.5886-02	.5886-02	.9000	.2131-03	.2561-03	.1683	1.506	536.0
95	180.00	.80000	190.00	.3637-02	.4370-02	.4370-02	.9000	.1583-03	.1902-03	.1251	1.218	535.0
95	315.00	.40000	234.00	.1597-02	.1919-02	.1919-02	.9000	.6951-04	.8351-04	.5496-01	.4100	535.1
95	315.00	.50000	236.00	.1926-02	.2314-02	.2314-02	.9000	.8380-04	.1007-03	.6629-01	.4122	534.6
95	315.00	.70000	240.00	.5840-02	.7018-02	.7018-02	.9000	.2541-03	.3054-03	.2007	1.497	535.8
95	315.00	.80000	242.00	.4138-02	.4971-02	.4971-02	.9000	.1800-03	.2163-03	.1424	.9958	534.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA18)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
196	.5017	7.900	39.96	-1.993	100.6	1257.	93.21	.1118-01	.4886	3739.	.3238-03	.7501-07
197	.4998	7.900	39.96	-1.991	100.2	1257.	93.21	.1114-01	.4867	3739.	.3226-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
196	.1713-01	.5706-01
197	.1710-01	.5716-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	OCOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
196	.00000	.00000	1.0000	.4761	.5819	.5185	.9551	.8158-02	.8883-02	5.636	31.05	565.8
196	.00000	.50000-02	2.0000	.5243	.6444	.5373	.9870	.8984-02	.9207-02	6.061	41.40	582.0
196	.00000	.10000-01	3.0000	.4863	.5963	.4982	.9870	.8332-02	.8537-02	5.673	37.69	575.8
196	.00000	.20000-01	4.0000	.3646	.4442	.3794	.9782	.6247-02	.6501-02	4.381	24.26	555.3
197	.00000	.30000-01	5.0000	.2803	.3413	.2965	.9694	.4794-02	.5071-02	3.370	18.68	553.7
197	.00000	.40000-01	6.0000	.2570	.3128	.2749	.9634	.4395-02	.4702-02	3.098	17.19	551.8
197	.00000	.50000-01	7.0000	.2221	.2705	.2397	.9589	.3798-02	.4100-02	2.667	17.91	554.5
197	.00000	.60000-01	8.0000	.2291	.2790	.2489	.9555	.3918-02	.4257-02	2.751	17.42	554.5
197	.00000	.70000-01	9.0000	.1973	.2402	.2158	.9521	.3374-02	.3690-02	2.371	16.43	553.8
197	.00000	.80000-01	10.000	.1642	.1998	.1805	.9494	.2808-02	.3086-02	1.979	13.72	552.0
197	.00000	.90000-01	11.000	.1556	.1891	.1715	.9476	.2660-02	.2933-02	1.884	11.96	548.7
197	.00000	.10000-00	12.000	.1432	.1740	.1584	.9457	.2449-02	.2710-02	1.737	10.44	547.4
197	.00000	.12000	13.000	.1270	.1543	.1412	.9432	.2172-02	.2415-02	1.546	8.610	544.8
197	.00000	.13000	14.000	.1260	.1530	.1403	.9423	.2154-02	.2399-02	1.533	8.982	545.1
197	.00000	.14000	15.000	.1196	.1453	.1334	.9417	.2045-02	.2281-02	1.452	9.230	546.7
197	.00000	.15000	16.000	.1237	.1503	.1380	.9413	.2115-02	.2361-02	1.502	9.281	546.7
197	.00000	.16000	17.000	.1215	.1476	.1357	.9406	.2077-02	.2321-02	1.476	9.121	546.3
197	.00000	.17000	18.000	.1204	.1463	.1347	.9400	.2059-02	.2304-02	1.460	9.277	547.5
197	.00000	.18000	19.000	.1175	.1428	.1316	.9395	.2010-02	.2250-02	1.427	9.068	546.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA18)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
197	.00000	.20000	21.000	.1144	.1389	.1284	.9383	.1956-02	.2195-02	1.391	8.844	545.7
197	.00000	.25000	23.000	.1049	.1274	.1182	.9361	.1793-02	.2022-02	1.272	8.081	547.5
197	.00000	.30000	24.000	.1000	.1216	.1128	.9361	.1711-02	.1929-02	1.212	7.694	548.5
197	.00000	.35000	25.000	.1014	.1232	.1143	.9361	.1733-02	.1955-02	1.227	7.791	548.8
197	.00000	.40000	26.000	.9817-01	.1194	.1108	.9361	.1679-02	.1894-02	1.186	7.750	550.1
197	.00000	.45000	1027.0	.8727-01	.1062	.9846-01	.9361	.1492-02	.1684-02	1.054	7.091	550.6
197	.00000	.50000	1028.0	.8021-01	.9757-01	.9050-01	.9361	.1372-02	.1548-02	.9694	6.728	550.1
197	.00000	.55000	1029.0	.7773-01	.9460-01	.8772-01	.9361	.1329-02	.1500-02	.9365	6.926	552.2
197	.00000	.60000	1030.0	.7243-01	.8814-01	.8174-01	.9361	.1239-02	.1398-02	.8736	6.464	551.4
197	.00000	.65000	1031.0	.6455-01	.7854-01	.7284-01	.9361	.1104-02	.1246-02	.7787	5.762	551.2
197	.00000	.70000	1032.0	.6474-01	.7879-01	.7306-01	.9361	.1107-02	.1250-02	.7803	5.971	551.9
197	.00000	.75000	1033.0	.6054-01	.7365-01	.6831-01	.9361	.1035-02	.1168-02	.7307	5.407	550.9
197	.00000	.80000	1034.0	.6303-01	.7666-01	.7111-01	.9361	.1078-02	.1216-02	.7619	5.641	549.9
197	.00000	.85000	1035.0	.5891-01	.7162-01	.6717-01	.9307	.1008-02	.1149-02	.7133	5.467	548.6
197	10.000	.10000+00	45.000	.1547	.1880	.1880	.9000	.2645-02	.3215-02	1.877	11.60	547.2
197	14.000	.50000-01	44.000	.2165	.2633	.2633	.9000	.3702-02	.4502-02	2.617	18.17	549.7
197	20.000	.10000+00	207.00	.2092	.2546	.2546	.9000	.3577-02	.4354-02	2.519	14.71	552.3
197	20.000	.15000	211.00	.1386	.1684	.1684	.9000	.2370-02	.2880-02	1.683	10.70	546.5
197	22.000	.50000-01	202.00	.2597	.3159	.3159	.9000	.4442-02	.5402-02	3.141	17.44	549.7
197	24.000	.20000	48.000	.1016	.1236	.1236	.9000	.1738-02	.2113-02	1.231	10.94	548.6
197	24.500	.10000+00	208.00	.2129	.2591	.2591	.9000	.3641-02	.4432-02	2.565	16.26	552.2
197	25.500	.15000	212.00	.1484	.1808	.1808	.9000	.2538-02	.3092-02	1.782	15.79	554.7
197	31.500	.20000	215.00	.1046	.1273	.1273	.9000	.1789-02	.2177-02	1.260	12.70	552.5
197	35.000	.50000-01	203.00	.1820	.2211	.2211	.9000	.3113-02	.3781-02	2.215	14.09	545.2
197	35.000	.20000	216.00	.1091	.1327	.1327	.9000	.1865-02	.2270-02	1.313	13.24	552.5
197	39.000	.10000+00	209.00	.1008	.1222	.1222	.9000	.1724-02	.2090-02	1.237	7.892	539.3
197	40.000	.15000	213.00	.1742	.2122	.2122	.9000	.2378-02	.3630-02	2.085	15.39	556.5
197	40.000	.20000	217.00	.1128	.1375	.1375	.9000	.1929-02	.2352-02	1.349	14.93	557.4
197	42.500	.50000-01	204.00	.8492-01	.1029	.1029	.9000	.1452-02	.1760-02	1.045	7.080	537.1
197	45.500	.15000	214.00	.9243-01	.1121	.1121	.9000	.1581-02	.1916-02	1.134	6.665	539.2
197	51.000	.20000	218.00	.4944-01	.5988-01	.5988-01	.9000	.8455-03	.1024-02	.6090	3.892	536.3
197	60.000	.50000-01	205.00	.2471-01	.2988-01	.2988-01	.9000	.4226-03	.5110-03	.3071	2.088	530.1
197	67.500	.20000	219.00	.2647-01	.3205-01	.3205-01	.9000	.4527-03	.5481-03	.3268	2.438	534.8
197	96.500	.20000	1220.0	.2220-01	.2688-01	.2688-01	.9000	.3797-03	.4597-03	.2743	1.981	534.4
196	114.00	.40000	388.00	.2383-01	.2884-01	.2884-01	.9000	.4083-03	.4941-03	.2955	2.136	532.9
196	114.00	.50000	390.00	.2319-01	.2806-01	.2806-01	.9000	.3973-03	.4807-03	.2878	1.791	532.4
196	114.00	.70000	394.00	.7124-02	.8610-02	.8610-02	.9000	.1221-03	.1475-03	.8888-01	.5870	528.5
196	157.50	.40000	223.00	.1762-02	.2129-02	.2129-02	.9000	.3018-04	.3648-04	.2198-01	.1452	528.4
196	157.50	.50000	225.00	.2149-02	.2600-02	.2600-02	.9000	.3682-04	.4455-04	.2669-01	.1760	531.9
196	157.50	.70000	229.00	.3910-02	.4722-02	.4722-02	.9000	.6700-04	.8092-04	.4894-01	.3668	526.1
196	157.50	.80000	231.00	.3086-02	.3726-02	.3726-02	.9000	.5288-04	.6385-04	.3868-01	.2719	525.1
196	180.00	.40000	182.00	.2588-02	.3129-02	.3129-02	.9000	.4434-04	.5360-04	.3226-01	.2785	529.2
196	180.00	.50000	184.00	.2401-02	.2901-02	.2901-02	.9000	.4113-04	.4971-04	.2996-01	.2691	528.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA18)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
196	180.00	.60000	186.00	.2599-02	.3139-02	.3139-02	.9000	.4452-04	.5379-04	.3248-01	.2920	527.1
196	180.00	.70000	188.00	.2678-02	.3235-02	.3235-02	.9000	.4589-04	.5543-04	.3349-01	.3011	526.8
196	180.00	.80000	190.00	.2926-02	.3534-02	.3534-02	.9000	.5013-04	.6055-04	.3663-01	.3581	526.0
196	315.00	.40000	234.00	.1939-02	.2343-02	.2343-02	.9000	.3322-04	.4015-04	.2420-01	.1811	528.4
196	315.00	.50000	236.00	.2874-02	.3473-02	.3473-02	.9000	.425-04	.5951-04	.3587-01	.2238	528.2
196	315.00	.70000	240.00	.2780-02	.3358-02	.3358-02	.9000	.4764-04	.5753-04	.3479-01	.2607	526.3
196	315.00	.80000	242.00	.1158-02	.1398-02	.1398-02	.9000	.1984-04	.2395-04	.1452-01	.1021	524.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA18)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT ³	MU LB-SEC /FT ²
183	1.005	7.940	39.96	-2.000	205.1	1260.	92.56	.2206-01	.9736	3745.	.6433-03	.7449-07
184	.9995	7.940	39.97	-2.001	204.9	1264.	92.86	.2204-01	.9726	3751.	.6406-03	.7472-07

RUN NUMBER	HREF BTU/ R FT ² SEC	STN NO REF (R) =.0175
183	.2420-01	.4049-01
184	.2420-01	.4059-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT ² SEC	H(TAW) BTU/R FT ² SEC	ODOT BTU/ FT ² SEC	DTWDT DEG. R /SEC	TW DEG. R
183	.00000	.00000	1.0000	.4691	.5749	.5114	.9551	.1135-01	.1237-01	7.766	42.58	575.5
183	.00000	.50000-02	2.0000	.5184	.6409	.5316	.9870	.1254-01	.1286-01	8.268	55.96	600.6
183	.00000	.10000-01	3.0000	.4777	.5889	.4898	.9870	.1156-01	.1185-01	7.717	50.86	592.1
183	.00000	.20000-01	4.0000	.3574	.4363	.3721	.9782	.8649-02	.9004-02	6.029	33.27	562.6
184	.00000	.30000-01	5.0000	.2764	.3371	.2925	.9694	.6688-02	.7078-02	4.693	25.90	562.0
184	.00000	.40000-01	6.0000	.2539	.3094	.2717	.9635	.6144-02	.6575-02	4.326	23.91	559.5
184	.00000	.50000-01	7.0000	.2191	.2673	.2366	.9589	.5301-02	.5726-02	3.712	24.82	563.3
184	.00000	.60000-01	8.0000	.2269	.2768	.2467	.9555	.5490-02	.5969-02	3.846	24.24	563.2
184	.00000	.70000-01	9.0000	.1952	.2381	.2136	.9521	.4723-02	.5169-02	3.312	22.84	562.4
184	.00000	.80000-01	10.000	.1586	.1932	.1744	.9494	.3837-02	.4220-02	2.704	18.69	558.9
184	.00000	.90000-01	11.000	.1518	.1848	.1675	.9476	.3674-02	.4053-02	2.605	16.49	554.7
184	.00000	.10000+00	12.000	.1418	.1725	.1569	.9457	.3430-02	.3798-02	2.433	14.58	554.3
184	.00000	.12000	13.000	.1262	.1534	.1403	.9432	.3054-02	.3396-02	2.177	12.08	550.7
184	.00000	.13000	14.000	.1244	.1513	.1386	.9423	.3011-02	.3354-02	2.145	12.53	551.2
184	.00000	.14000	15.000	.1193	.1451	.1331	.9417	.2986-02	.3220-02	2.049	12.98	553.5
184	.00000	.15000	16.000	.1211	.1474	.1353	.9413	.2932-02	.3274-02	2.082	12.82	553.5
184	.00000	.16000	17.000	.1206	.1467	.1348	.9406	.2919-02	.3263-02	2.074	12.77	553.2
184	.00000	.17000	18.000	.1193	.1452	.1336	.9400	.2888-02	.3234-02	2.048	12.97	554.5
184	.00000	.18000	19.000	.1175	.1429	.1316	.9396	.2843-02	.3185-02	2.017	12.78	554.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA18)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
184	.00000	.20000	21.000	.1133	.1378	.1273	.9383	.2743-02	.3081-02	1.950	12.36	552.6
184	.00000	.25000	23.000	.1031	.1254	.1163	.9361	.2494-02	.2814-02	1.768	11.19	554.9
184	.00000	.30000	24.000	.9714-01	.1182	.1096	.9361	.2351-02	.2653-02	1.666	10.55	555.0
184	.00000	.35000	25.000	.9878-01	.1202	.1115	.9361	.2390-02	.2698-02	1.693	10.71	555.5
184	.00000	.40000	26.000	.9665-01	.1177	.1091	.9361	.2339-02	.2641-02	1.652	10.75	557.3
184	.00000	.45000	1027.0	.8457-01	.1030	.9549-01	.9361	.2047-02	.2311-02	1.444	9.678	558.2
184	.00000	.50000	1028.0	.7692-01	.9369-01	.8635-01	.9361	.1861-02	.2102-02	1.314	9.083	557.8
184	.00000	.55000	1029.0	.7604-01	.9271-01	.8590-01	.9361	.1840-02	.2079-02	1.293	9.521	560.9
184	.00000	.60000	1030.0	.7139-01	.8701-01	.8063-01	.9361	.1727-02	.1951-02	1.215	8.953	560.1
184	.00000	.65000	1031.0	.6281-01	.7659-01	.7097-01	.9361	.1520-02	.1717-02	1.068	7.860	561.3
184	.00000	.70000	1032.0	.6252-01	.7624-01	.7064-01	.9361	.1513-02	.1709-02	1.063	8.093	561.3
184	.00000	.75000	1033.0	.5872-01	.7160-01	.6634-01	.9361	.1421-02	.1605-02	.9976	7.344	561.5
184	.00000	.80000	1034.0	.6196-01	.7554-01	.7000-01	.9361	.1499-02	.1694-02	1.054	7.763	560.6
184	.00000	.85000	1035.0	.5785-01	.7049-01	.6606-01	.9307	.1400-02	.1598-02	.9860	7.517	559.3
184	10.000	.10000+00	45.000	.1524	.1853	.1853	.9000	.3687-02	.4485-02	2.621	16.14	552.9
184	14.000	.50000-01	44.000	.2135	.2601	.2601	.9000	.5167-02	.6293-02	3.649	25.23	557.5
184	20.000	.10000+00	207.00	.2085	.2541	.2541	.9000	.5046-02	.6149-02	3.553	20.67	559.5
184	20.000	.15000	211.00	.1363	.1658	.1658	.9000	.3298-02	.4011-02	2.343	14.85	553.1
184	22.000	.50000-01	202.00	.2582	.3145	.3145	.9000	.6249-02	.7610-02	4.414	24.42	557.3
184	24.000	.20000	48.000	.1003	.1221	.1221	.9000	.2426-02	.2954-02	1.716	15.20	536.4
184	24.500	.10000+00	208.00	.2131	.2598	.2598	.9000	.5156-02	.6286-02	3.625	22.88	560.7
184	25.500	.15000	212.00	.1454	.1774	.1774	.9000	.3519-02	.4293-02	2.469	21.80	562.2
184	31.500	.20000	215.00	.1027	.1251	.1251	.9000	.2484-02	.3028-02	1.748	17.55	560.2
184	35.000	.50000-01	203.00	.1787	.2171	.2171	.9000	.4323-02	.5253-02	3.086	19.58	549.9
184	35.000	.20000	216.00	.1080	.1317	.1317	.9000	.2614-02	.3186-02	1.839	18.48	560.0
184	39.000	.10000+00	209.00	.9906-01	.1201	.1201	.9000	.2397-02	.2907-02	1.727	11.00	543.1
184	40.000	.15000	213.00	.1722	.2102	.2102	.9000	.4167-02	.5086-02	2.914	21.42	564.4
184	40.000	.20000	217.00	.1001	.1222	.1222	.9000	.2423-02	.2956-02	1.697	18.72	563.3
184	42.500	.50000-01	204.00	.8176-01	.9904-01	.9904-01	.9000	.1979-02	.2397-02	1.433	9.699	539.3
184	45.500	.15000	214.00	.8881-01	.1077	.1077	.9000	.2149-02	.2605-02	1.552	9.109	541.6
184	51.000	.20000	218.00	.4800-01	.5814-01	.5814-01	.9000	.1161-02	.1407-02	.8415	5.370	539.1
184	60.000	.50000-01	205.00	.2328-01	.2814-01	.2814-01	.9000	.5634-03	.6809-03	.4127	2.804	531.3
184	67.500	.20000	219.00	.2657-01	.3217-01	.3217-01	.9000	.6430-03	.7785-03	.4671	3.480	537.3
184	96.500	.20000	1220.0	.2242-01	.2713-01	.2713-01	.9000	.5424-03	.6565-03	.3946	2.847	536.2
183	114.00	.40000	388.00	.2301-01	.2786-01	.2786-01	.9000	.5568-03	.6742-03	.4031	2.909	535.7
183	114.00	.50000	390.00	.2390-01	.2893-01	.2893-01	.9000	.5784-03	.7000-03	.4194	2.608	534.5
183	114.00	.70000	394.00	.8107-02	.9800-02	.9800-02	.9000	.1962-03	.2371-03	.1431	.9439	530.4
183	157.50	.40000	223.00	.2335-02	.2822-02	.2822-02	.9000	.5650-04	.6828-04	.4124-01	.2721	529.8
183	157.50	.50000	225.00	.2903-02	.3513-02	.3513-02	.9000	.7026-04	.8499-04	.5104-01	.3363	533.2
183	157.50	.70000	229.00	.6932-02	.8374-02	.8374-02	.9000	.1677-03	.2026-03	.1227	.9186	528.1
183	157.50	.80000	231.00	.5101-02	.6159-02	.6159-02	.9000	.1234-03	.1490-03	.9048-01	.6355	526.6
183	180.00	.40000	182.00	.3570-02	.4316-02	.4316-02	.9000	.8638-04	.1044-03	.6292-01	.5426	531.2
183	180.00	.50000	184.00	.3632-02	.4390-02	.4390-02	.9000	.8789-04	.1062-03	.6412-01	.5754	530.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA18)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
183	180.00	.60000	186.00	.3999-02	.4832-02	.4832-02	.9000	.9677-04	.1169-03	.7072-01	.6351	528.8
183	180.00	.70000	188.00	.3322-02	.4013-02	.4013-02	.9000	.8039-04	.9711-04	.5880-01	.5283	528.2
183	180.00	.80000	190.00	.2368-02	.2860-02	.2860-02	.9000	.5730-04	.6920-04	.4199-01	.4103	526.9
183	315.00	.40000	234.00	.1799-02	.2174-02	.2174-02	.9000	.4353-04	.5260-04	.3178-01	.2377	529.6
183	315.00	.50000	236.00	.2532-02	.3060-02	.3060-02	.9000	.6127-04	.7404-04	.4477-01	.2792	529.0
183	315.00	.70000	240.00	.2641-02	.3190-02	.3190-02	.9000	.6391-04	.7719-04	.4681-01	.3506	527.3
183	315.00	.80000	242.00	.1630-02	.1968-02	.1968-02	.9000	.3944-04	.4761-04	.2896-01	.2035	525.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA18)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
174	1.998	7.980	39.98	-2.000	435.7	1305.	94.98	.4536-01	2.022	3813.	.1289-02	.7643-07
175	1.988	7.980	39.99	-2.005	434.9	1308.	95.20	.4528-01	2.018	3817.	.1284-02	.7661-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
174	.3508-01	.2871-01
175	.3507-01	.2878-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
174	.00000	.00000	1.0000	.4702	.5785	.5134	.9550	.1650-01	.1801-01	11.50	62.07	607.5
174	.00000	.50000-02	2.0000	.5147	.6415	.5283	.9870	.1806-01	.1853-01	11.92	79.00	644.4
174	.00000	.10000-01	3.0000	.4755	.5899	.4878	.9870	.1668-01	.1711-01	11.23	72.57	631.8
174	.00000	.20000-01	4.0000	.3564	.4357	.3712	.9782	.1250-01	.1302-01	8.965	48.85	587.7
175	.00000	.30000-01	5.0000	.2724	.3320	.2882	.9695	.9552-02	.1011-01	6.961	38.09	579.0
175	.00000	.40000-01	6.0000	.2489	.3030	.2662	.9635	.8727-02	.9336-02	6.391	35.04	575.4
175	.00000	.50000-01	7.0000	.2154	.2627	.2326	.9589	.7554-02	.8158-02	5.486	36.35	581.4
175	.00000	.60000-01	8.0000	.2237	.2728	.2432	.9556	.7844-02	.8527-02	5.698	35.60	581.3
175	.00000	.70000-01	9.0000	.1928	.2351	.2109	.9521	.6760-02	.7397-02	4.916	33.61	580.5
175	.00000	.80000-01	10.000	.1600	.1949	.1759	.9495	.5610-02	.6168-02	4.098	28.06	577.3
175	.00000	.90000-01	11.000	.1516	.1843	.1671	.9476	.5316-02	.5861-02	3.916	24.59	571.1
175	.00000	.10000+00	12.000	.1413	.1717	.1563	.9457	.4956-02	.5483-02	3.661	21.77	569.0
175	.00000	.12000	13.000	.1228	.1490	.1364	.9432	.4305-02	.4782-02	3.201	17.65	564.1
175	.00000	.13000	14.000	.1224	.1485	.1362	.9424	.4292-02	.4776-02	3.187	18.49	565.1
175	.00000	.14000	15.000	.1173	.1432	.1314	.9417	.4133-02	.4608-02	3.056	19.22	568.3
175	.00000	.15000	16.000	.1218	.1480	.1359	.9413	.4271-02	.4766-02	3.158	19.31	568.3
175	.00000	.16000	17.000	.1196	.1453	.1336	.9407	.4195-02	.4686-02	3.102	18.97	568.1
175	.00000	.17000	18.000	.1173	.1426	.1313	.9400	.4115-02	.4604-02	3.036	19.08	569.8
175	.00000	.18000	19.000	.1156	.1405	.1294	.9396	.4053-02	.4539-02	2.993	18.81	569.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA18)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
175	.00000	.20000	21.000	.1116	.1356	.1253	.9383	.3915-02	.4393-02	2.898	18.23	567.3
175	.00000	.25000	23.000	.1015	.1233	.1144	.9362	.3558-02	.4012-02	2.624	16.48	570.1
175	.00000	.30000	24.000	.9629-01	.1171	.1086	.9362	.3377-02	.3808-02	2.486	15.61	571.3
175	.00000	.35000	25.000	.9779-01	.1190	.1103	.9362	.3429-02	.3868-02	2.521	15.82	572.4
175	.00000	.40000	26.000	.9463-01	.1152	.1068	.9362	.3318-02	.3745-02	2.429	15.67	575.7
175	.00000	.45000	1027.0	.8257-01	.1006	.9321-01	.9362	.2896-02	.3269-02	2.117	14.06	576.5
175	.00000	.50000	1028.0	.7567-01	.9213-01	.8541-01	.9362	.2653-02	.2995-02	1.942	13.30	575.9
175	.00000	.55000	1029.0	.7559-01	.9218-01	.8540-01	.9362	.2651-02	.2995-02	1.926	14.04	581.2
175	.00000	.60000	1030.0	.6875-01	.8381-01	.7766-01	.9362	.2411-02	.2723-02	1.754	12.79	580.1
175	.00000	.65000	1031.0	.6210-01	.7572-01	.7016-01	.9362	.2178-02	.2460-02	1.583	11.54	580.7
175	.00000	.70000	1032.0	.6278-01	.7641-01	.7085-01	.9362	.2202-02	.2484-02	1.614	12.21	574.5
175	.00000	.75000	1033.0	.5980-01	.7278-01	.6748-01	.9362	.2097-02	.2366-02	1.537	11.24	574.5
175	.00000	.80000	1034.0	.6931-01	.8436-01	.7821-01	.9362	.2430-02	.2743-02	1.781	13.02	574.8
175	.00000	.85000	1035.0	.7075-01	.8611-01	.8072-01	.9308	.2481-02	.2830-02	1.818	13.75	574.8
175	10.000	.10000+00	45.000	.1524	.1852	.1852	.9000	.5344-02	.6494-02	3.945	24.10	569.4
175	14.000	.50000-01	44.000	.2107	.2564	.2564	.9000	.7388-02	.8991-02	5.420	37.17	574.0
175	20.000	.10000+00	207.00	.2076	.2530	.2530	.9000	.7278-02	.8873-02	5.296	30.50	580.0
175	20.000	.15000	211.00	.1341	.1630	.1630	.9000	.4704-02	.5715-02	3.474	21.84	569.0
175	22.000	.50000-01	202.00	.2553	.3107	.3107	.9000	.8953-02	.1089-01	6.573	36.07	573.5
175	24.000	.20000	48.000	.9868-01	.1201	.1201	.9000	.3460-02	.4211-02	2.538	22.27	574.3
175	24.500	.10000+00	208.00	.2118	.2582	.2582	.9000	.7428-02	.9054-02	5.409	33.82	579.5
175	25.500	.15000	212.00	.1445	.1764	.1764	.9000	.5067-02	.6186-02	3.664	31.99	584.7
175	31.500	.20000	215.00	.1020	.1245	.1245	.9000	.3578-02	.4364-02	2.598	25.82	581.6
175	35.000	.50000-01	203.00	.1784	.2165	.2165	.9000	.6256-02	.7592-02	4.648	29.28	564.7
175	35.000	.20000	216.00	.1071	.1307	.1307	.9000	.3757-02	.4582-02	2.729	27.13	581.2
175	39.000	.10000+00	209.00	.9788-01	.1184	.1184	.9000	.3432-02	.4153-02	2.588	16.39	553.7
175	40.000	.15000	213.00	.1732	.2116	.2116	.9000	.6072-02	.7419-02	4.373	31.77	587.6
175	40.000	.20000	217.00	.1030	.1258	.1258	.9000	.3611-02	.4410-02	2.605	28.41	586.2
175	42.500	.50000-01	204.00	.8065-01	.9744-01	.9744-01	.9000	.2828-02	.3417-02	2.146	14.45	548.8
175	45.500	.15000	214.00	.8950-01	.1083	.1083	.9000	.3139-02	.3796-02	2.369	13.82	553.0
175	51.000	.20000	218.00	.4693-01	.5667-01	.5667-01	.9000	.1645-02	.1987-02	1.252	7.955	547.0
175	60.000	.50000-01	205.00	.2187-01	.2633-01	.2633-01	.9000	.7670-03	.9235-03	.5921	4.014	535.8
175	67.500	.20000	219.00	.2638-01	.3184-01	.3184-01	.9000	.9251-03	.1117-02	.7055	5.236	545.1
175	96.500	.20000	1220.0	.2234-01	.2695-01	.2695-01	.9000	.7834-03	.9451-03	.5989	4.306	543.2
174	114.00	.40000	388.00	.2048-01	.2470-01	.2470-01	.9000	.7184-03	.8667-03	.5479	3.941	542.1
174	114.00	.50000	390.00	.2265-01	.2731-01	.2731-01	.9000	.7945-03	.9581-03	.6071	3.764	540.5
174	114.00	.70000	394.00	.1076-01	.1296-01	.1296-01	.9000	.3776-03	.4548-03	.2900	1.907	536.7
174	157.50	.40000	223.00	.4858-02	.5849-02	.5849-02	.9000	.1704-03	.2052-03	.1313	.8644	534.4
174	157.50	.50000	225.00	.4419-02	.5324-02	.5324-02	.9000	.1550-03	.1868-03	.1190	.7820	537.4
174	157.50	.70000	229.00	.5176-02	.6228-02	.6228-02	.9000	.1816-03	.2185-03	.1403	1.048	532.1
174	157.50	.80000	231.00	.6013-02	.7234-02	.7234-02	.9000	.2110-03	.2538-03	.1630	1.142	531.9
174	180.00	.40000	182.00	.5044-02	.6073-02	.6073-02	.9000	.1769-03	.2131-03	.1362	1.172	535.0
174	180.00	.50000	184.00	.5054-02	.6085-02	.6085-02	.9000	.1773-03	.2135-03	.1366	1.223	534.3

DATE 23 FEB 60

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 120

OH84B 60-0 FUSELAGE

(R4UA18)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
174	180.00	.60000	186.00	.4620-02	.5560-02	.5560-02	.9000	.1621-03	.1951-03	.1250	1.120	533.3
174	180.00	.70000	188.00	.3947-02	.4750-02	.4750-02	.9000	.1385-03	.1666-03	.1069	.9578	532.9
174	180.00	.80000	190.00	.2642-02	.3178-02	.3178-02	.9000	.9268-04	.1115-03	.7158-01	.6974	532.3
174	315.00	.40000	234.00	.1473-02	.1773-02	.1773-02	.9000	.5168-04	.6220-04	.3987-01	.2977	533.3
174	315.00	.50000	236.00	.2061-02	.2481-02	.2481-02	.9000	.7232-04	.8703-04	.5582-01	.3474	532.8
174	315.00	.70000	240.00	.3513-02	.4227-02	.4227-02	.9000	.1233-03	.1483-03	.9518-01	.7110	532.4
174	315.00	.80000	242.00	.1934-02	.2326-02	.2326-02	.9000	.6784-04	.8160-04	.5249-01	.3679	530.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 121

OH84B 60-0 FUSELAGE

(R4UA18)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 -BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
90	3.013	7.990	40.02	-2.028	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07
93	2.993	7.990	40.02	-2.035	672.1	1328.	96.43	.6941-01	3.102	3846.	.1943-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
90	.4349-01	.2337-01
93	.4359-01	.2343-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
90	.00000	.00000	1.0000	.4680	.5782	.5119	.9550	.2035-01	.2227-01	14.08	75.27	627.6
90	.00000	.50000-02	2.0000	.5164	.6484	.5304	.9870	.2246-01	.2307-01	14.56	95.20	671.5
90	.00000	.10000-01	3.0000	.4766	.5953	.4893	.9870	.2073-01	.2128-01	13.72	87.57	657.9
90	.00000	.20000-01	4.0000	.3568	.4383	.3719	.9782	.1552-01	.1617-01	11.01	59.34	610.1
93	.00000	.30000-01	5.0000	.2716	.3310	.2873	.9695	.1184-01	.1252-01	8.756	47.71	587.9
93	.00000	.40000-01	6.0000	.2519	.3067	.2694	.9636	.1098-01	.1174-01	8.159	44.53	584.5
93	.00000	.50000-01	7.0000	.2128	.2595	.2297	.9590	.9273-02	.1001-01	6.833	45.06	590.8
93	.00000	.60000-01	8.0000	.2207	.2692	.2399	.9556	.9619-02	.1045-01	7.087	44.07	590.9
93	.00000	.70000-01	9.0000	.1905	.2323	.2084	.9522	.8302-02	.9083-02	6.120	41.63	590.4
93	.00000	.80000-01	10.000	.1560	.1899	.1715	.9496	.6801-02	.7474-02	5.063	34.57	583.2
93	.00000	.90000-01	11.000	.1507	.1831	.1661	.9477	.6569-02	.7239-02	4.926	30.83	577.7
93	.00000	.10000+00	12.000	.1406	.1707	.1554	.9458	.6126-02	.6774-02	4.611	27.33	575.1
93	.00000	.12000	13.000	.1228	.1488	.1363	.9433	.5352-02	.5942-02	4.060	22.33	569.1
93	.00000	.13000	14.000	.1221	.1480	.1358	.9424	.5320-02	.5917-02	4.028	23.31	570.5
93	.00000	.14000	15.000	.1189	.1444	.1325	.9418	.5184-02	.5776-02	3.906	24.49	574.2
93	.00000	.15000	16.000	.1221	.1482	.1362	.9414	.5322-02	.5935-02	4.009	24.43	574.4
93	.00000	.16000	17.000	.1197	.1453	.1337	.9407	.5219-02	.5827-02	3.932	23.57	574.2
93	.00000	.17000	18.000	.1178	.1431	.1318	.9401	.5136-02	.5744-02	3.860	24.18	576.1
93	.00000	.18000	19.000	.1149	.1395	.1286	.9397	.5007-02	.5603-02	3.768	23.62	575.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 122

OH84B 60-0 FUSELAGE

(R4UA18)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
93	.00000	.20000	21.000	.1121	.1361	.1258	.9384	.4887-02	.5481-02	3.688	23.14	573.1
93	.00000	.25000	23.000	.1017	.1235	.1146	.9362	.4435-02	.4997-02	3.336	20.90	575.4
93	.00000	.30000	24.000	.9581-01	.1163	.1080	.9362	.4176-02	.4705-02	3.141	19.68	575.4
93	.00000	.35000	25.000	.9727-01	.1182	.1096	.9362	.4239-02	.4778-02	3.182	19.92	577.1
93	.00000	.40000	26.000	.9590-01	.1167	.1082	.9362	.4180-02	.4715-02	3.117	20.04	581.9
93	.00000	.45000	1027.0	.8143-01	.9908-01	.9186-01	.9362	.3549-02	.4004-02	2.648	17.52	582.4
93	.00000	.50000	1028.0	.8228-01	.9990-01	.9270-01	.9362	.3586-02	.4040-02	2.700	18.51	574.8
93	.00000	.55000	1029.0	.7687-01	.9372-01	.8682-01	.9362	.3350-02	.3784-02	2.473	17.95	589.5
93	.00000	.60000	1030.0	.7504-01	.9151-01	.8477-01	.9362	.3271-02	.3695-02	2.414	17.52	589.7
93	.00000	.65000	1031.0	.7610-01	.9284-01	.8598-01	.9362	.3317-02	.3748-02	2.443	17.72	591.0
93	.00000	.70000	1032.0	.9313-01	.1136	.1052	.9362	.4059-02	.4587-02	2.988	22.42	591.5
93	.00000	.75000	1033.0	.1150	.1405	.1300	.9362	.5010-02	.5667-02	3.657	26.44	597.7
93	.00000	.80000	1034.0	.1498	.1835	.1697	.9362	.6531-02	.7397-02	4.723	34.03	604.5
93	.00000	.85000	1035.0	.1682	.2063	.1929	.9308	.7333-02	.8406-02	5.275	39.25	608.3
93	10.000	.10000+00	45.000	.1523	.1851	.1851	.9000	.6640-02	.8068-02	4.981	30.32	577.5
93	14.000	.50000-01	44.000	.2085	.2540	.2540	.9000	.9089-02	.1107-01	6.747	46.02	585.3
93	20.000	.10000+00	207.00	.2060	.2511	.2511	.9000	.8978-02	.1094-01	6.632	38.02	588.9
93	20.000	.15000	211.00	.1346	.1635	.1635	.9000	.5868-02	.7128-02	4.408	27.60	576.5
93	22.000	.50000-01	202.00	.2526	.3080	.3080	.9000	.1101-01	.1342-01	8.134	44.30	589.0
93	24.000	.20000	48.000	.9860-01	.1200	.1200	.9000	.4297-02	.5229-02	3.203	28.00	582.4
93	24.500	.10000+00	208.00	.2100	.2562	.2562	.9000	.9154-02	.1117-01	6.743	41.92	591.1
93	25.500	.15000	212.00	.1362	.1660	.1660	.9000	.5936-02	.7233-02	4.397	38.35	587.0
93	31.500	.20000	215.00	.1012	.1235	.1235	.9000	.4412-02	.5383-02	3.249	32.13	591.3
93	35.000	.50000-01	203.00	.1764	.2139	.2139	.9000	.7686-02	.9325-02	5.814	36.50	571.4
93	35.000	.20000	216.00	.1059	.1291	.1291	.9000	.4615-02	.5625-02	3.412	33.79	588.3
93	39.000	.10000+00	209.00	.9796-01	.1184	.1184	.9000	.4270-02	.5160-02	3.285	20.76	558.2
93	40.000	.15000	213.00	.1725	.2108	.2108	.9000	.7519-02	.9186-02	5.500	39.80	596.1
93	40.000	.20000	217.00	.1029	.1256	.1256	.9000	.4483-02	.5473-02	3.291	35.76	593.6
93	42.500	.50000-01	204.00	.8046-01	.9714-01	.9714-01	.9000	.3507-02	.4234-02	2.711	18.21	554.6
93	45.500	.15000	214.00	.8964-01	.1082	.1082	.9000	.3907-02	.4715-02	3.026	17.66	553.2
93	51.000	.20000	218.00	.4740-01	.5709-01	.5709-01	.9000	.2066-02	.2488-02	1.615	10.27	545.9
93	60.000	.50000-01	205.00	.2100-01	.2525-01	.2525-01	.9000	.9154-03	.1101-02	.7221	4.888	538.8
93	67.500	.20000	219.00	.2605-01	.3136-01	.3136-01	.9000	.1135-02	.1367-02	.8890	6.600	544.5
93	96.500	.20000	1220.0	.2261-01	.2722-01	.2722-01	.9000	.9856-03	.1187-02	.7729	5.556	543.5
90	114.00	.40000	388.00	.2000-01	.2414-01	.2414-01	.9000	.8697-03	.1050-02	.6687	4.790	550.8
90	114.00	.50000	390.00	.2895-01	.3496-01	.3496-01	.9000	.1259-02	.1520-02	.9669	5.960	551.8
90	114.00	.70000	394.00	.1281-01	.1545-01	.1545-01	.9000	.5572-03	.6718-03	.4311	2.822	545.9
90	157.50	.40000	223.00	.5541-02	.6672-02	.6672-02	.9000	.2410-03	.2902-03	.1877	1.232	540.8
90	157.50	.50000	225.00	.1192-01	.1435-01	.1435-01	.9000	.5182-03	.6240-03	.4035	2.647	541.2
90	157.50	.70000	229.00	.5303-02	.6380-02	.6380-02	.9000	.2306-03	.2775-03	.1802	1.342	538.2
90	157.50	.80000	231.00	.5080-02	.6108-02	.6108-02	.9000	.2209-03	.2656-03	.1732	1.211	535.8
90	180.00	.40000	182.00	.7203-02	.8676-02	.8676-02	.9000	.3133-03	.3773-03	.2434	2.088	542.5
90	180.00	.50000	184.00	.6258-02	.7538-02	.7538-02	.9000	.2722-03	.3278-03	.2117	1.888	542.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 123

OH84B 60-0 FUSELAGE

(R4UA18)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
90	180.00	.60000	186.00	.5064-02	.6097-02	.6097-02	.9000	.2202-03	.2652-03	.1715	1.531	541.0
90	180.00	.70000	188.00	.3940-02	.4742-02	.4742-02	.9000	.1714-03	.2062-03	.1338	1.195	539.2
90	180.00	.80000	190.00	.2998-02	.3606-02	.3606-02	.9000	.1304-03	.1568-03	.1021	.9927	536.6
90	315.00	.40000	234.00	.1709-02	.2058-02	.2058-02	.9000	.7434-04	.8948-04	.5796-01	.4313	540.0
90	315.00	.50000	236.00	.2097-02	.2525-02	.2525-02	.9000	.9122-04	.1098-03	.7113-01	.4411	539.8
90	315.00	.70000	240.00	.5240-02	.6307-02	.6307-02	.9000	.2279-03	.2743-03	.1778	1.324	539.4
90	315.00	.80000	242.00	.2559-02	.3077-02	.3077-02	.9000	.1113-03	.1338-03	.8717-01	.6092	536.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 124

OH84B 60-0 FUSELAGE

(R4UA21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
193	.5035	7.900	39.99	-1.006	99.91	1248.	92.54	.1110-01	.4851	3726.	.3238-03	.7447-07
194	.5043	7.900	39.98	-1.003	100.4	1251.	92.77	.1116-01	.4876	3730.	.3247-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
193	.1705-01	.5701-01
194	.1710-01	.5695-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
193	.00000	.00000	1.0000	.4720	.5796	.5150	.9550	.8049-02	.8782-02	5.410	29.66	575.6
193	.00000	.50300-02	2.0000	.5001	.6183	.5129	.9870	.8528-02	.8745-02	5.568	37.80	594.7
193	.00000	.10000-01	3.0000	.4742	.5848	.4862	.9870	.8087-02	.3290-02	5.337	35.26	587.6
193	.00000	.20000-01	4.0000	.3683	.4503	.3835	.9782	.6280-02	.6540-02	4.300	23.72	562.9
194	.00000	.30000-01	5.0000	.2806	.3417	.2968	.9694	.4800-02	.5077-02	3.360	18.65	550.7
194	.00000	.40000-01	6.0000	.2559	.3114	.2737	.9635	.4377-02	.4682-02	3.072	17.07	548.8
194	.00000	.50000-01	7.0000	.2221	.2705	.2398	.9589	.3799-02	.4101-02	2.656	17.86	551.6
194	.00000	.60000-01	8.0000	.2301	.2802	.2500	.9555	.3935-02	.4275-02	2.751	17.44	551.6
194	.00000	.70000-01	9.0000	.1966	.2394	.2150	.9521	.3363-02	.3677-02	2.353	16.32	551.0
194	.00000	.80000-01	10.000	.1634	.1988	.1795	.9495	.2794-02	.3071-02	1.959	13.60	549.5
194	.00000	.90000-01	11.000	.1559	.1896	.1719	.9476	.2666-02	.2940-02	1.878	11.94	546.3
194	.00000	.10000+00	12.000	.1429	.1737	.1581	.9457	.2444-02	.2704-02	1.724	10.38	545.2
194	.00000	.12000	13.000	.1286	.1562	.1430	.9432	.2200-02	.2445-02	1.557	8.678	542.8
194	.00000	.13000	14.000	.1259	.1530	.1402	.9423	.2154-02	.2399-02	1.524	8.940	543.1
194	.00000	.14000	15.000	.1195	.1452	.1332	.9417	.2044-02	.2279-02	1.443	9.180	544.7
194	.00000	.15000	16.000	.1242	.1509	.1386	.9413	.2124-02	.2370-02	1.499	9.273	544.8
194	.00000	.16000	17.000	.1215	.1476	.1357	.9406	.2077-02	.2321-02	1.467	9.079	544.3
194	.00000	.17000	18.000	.1213	.1474	.1357	.9400	.2074-02	.2321-02	1.463	9.304	545.5
194	.00000	.18000	19.000	.1185	.1440	.1327	.9396	.2027-02	.2270-02	1.431	9.102	544.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA21)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
194	.00000	.20000	21.000	.1141	.1387	.1281	.9383	.1952-02	.2191-02	1.380	8.784	543.9
194	.00000	.25000	23.000	.1067	.1297	.1203	.9361	.1825-02	.2058-02	1.286	8.181	545.8
194	.00000	.30000	24.000	.9965-01	.1212	.1124	.9361	.1704-02	.1923-02	1.200	7.625	546.9
194	.00000	.35000	25.000	.1012	.1231	.1142	.9361	.1731-02	.1953-02	1.218	7.738	547.2
194	.00000	.40000	26.000	.9868-01	.1201	.1113	.9361	.1688-02	.1904-02	1.185	7.751	548.3
194	.00000	.45000	1027.0	.8471-01	.1031	.9560-01	.9361	.1449-02	.1635-02	1.016	6.843	549.2
194	.00000	.50000	1028.0	.8174-01	.9946-01	.9223-01	.9361	.1398-02	.1577-02	.9817	6.819	548.5
194	.00000	.55000	1029.0	.7788-01	.9482-01	.8791-01	.9361	.1332-02	.1504-02	.9320	6.897	550.9
194	.00000	.60000	1030.0	.7262-01	.8840-01	.8196-01	.9361	.1242-02	.1402-02	.8701	6.442	550.1
194	.00000	.65000	1031.0	.6554-01	.7978-01	.7397-01	.9361	.1121-02	.1265-02	.7853	5.814	550.0
194	.00000	.70000	1032.0	.6511-01	.7927-01	.7349-01	.9361	.1114-02	.1257-02	.7797	5.970	550.5
194	.00000	.75000	1033.0	.6140-01	.7473-01	.6929-01	.9361	.1050-02	.1185-02	.7360	5.449	549.8
194	.00000	.80000	1034.0	.6377-01	.7760-01	.7196-01	.9361	.1091-02	.1231-02	.7656	5.672	548.7
194	.00000	.85000	1035.0	.5955-01	.7243-01	.6791-01	.9307	.1018-02	.1162-02	.7160	5.490	547.7
194	10.000	.10000+00	45.000	.1536	.1867	.1867	.9000	.2628-02	.3193-02	1.855	11.47	544.7
194	14.000	.50000-01	44.000	.2130	.2590	.2590	.9000	.3642-02	.4429-02	2.565	17.83	546.5
194	20.000	.10000+00	207.00	.2068	.2517	.2517	.9000	.3535-02	.4304-02	2.480	14.50	549.4
194	20.000	.15000	211.00	.1375	.1671	.1671	.9000	.2352-02	.2858-02	1.662	10.58	544.1
194	22.000	.50000-01	202.00	.2564	.3117	.3117	.9000	.4385-02	.5331-02	3.088	17.18	546.4
194	24.000	.20000	48.000	.1008	.1226	.1226	.9000	.1724-02	.2097-02	1.215	10.81	546.3
194	24.500	.10000+00	208.00	.2103	.2560	.2560	.9000	.3596-02	.4378-02	2.519	15.99	550.1
194	25.500	.15000	212.00	.1460	.1778	.1778	.9000	.2497-02	.3041-02	1.746	15.50	551.5
194	31.500	.20000	215.00	.1023	.1246	.1246	.9000	.1750-02	.2131-02	1.227	12.39	549.8
194	35.000	.50000-01	203.00	.1752	.2128	.2128	.9000	.2997-02	.3639-02	2.124	13.53	542.0
194	35.000	.20000	216.00	.1069	.1301	.1301	.9000	.1828-02	.2225-02	1.281	12.94	549.7
194	39.000	.10000+00	209.00	.9751-01	.1183	.1183	.9000	.1668-02	.2023-02	1.189	7.589	538.0
194	40.000	.15000	213.00	.1685	.2053	.2053	.9000	.2882-02	.3511-02	2.011	14.87	552.9
194	40.000	.20000	217.00	.1063	.1296	.1296	.9000	.1818-02	.2217-02	1.264	14.00	555.6
194	42.500	.50000-01	204.00	.7991-01	.9682-01	.9682-01	.9000	.1367-02	.1656-02	.9782	6.635	534.9
194	45.500	.15000	214.00	.8647-01	.1048	.1048	.9000	.1479-02	.1793-02	1.055	6.208	537.1
194	51.000	.20000	218.00	.4891-01	.5685-01	.5685-01	.9000	.8023-03	.9723-03	.5738	3.668	535.5
194	60.000	.50000-01	205.00	.2397-01	.2899-01	.2899-01	.9000	.4099-03	.4959-03	.2957	2.011	529.4
194	67.500	.20000	219.00	.2437-01	.2952-01	.2952-01	.9000	.4169-03	.5049-03	.2989	2.231	533.7
194	96.500	.20000	1220.0	.2124-01	.2573-01	.2573-01	.9000	.3633-03	.4401-03	.2605	1.882	533.7
193	114.00	.40000	388.00	.2082-01	.2523-01	.2523-01	.9000	.3550-03	.4303-03	.2529	1.826	535.1
193	114.00	.50000	390.00	.1930-01	.2339-01	.2339-01	.9000	.3291-03	.3988-03	.2349	1.461	533.7
193	114.00	.70000	394.00	.4017-02	.4862-02	.4862-02	.9000	.6850-04	.8290-04	.4921-01	.3249	529.3
193	157.50	.40000	223.00	.1598-02	.1934-02	.1934-02	.9000	.2725-04	.3298-04	.1956-01	.1291	529.8
193	157.50	.50000	225.00	.2493-02	.3019-02	.3019-02	.9000	.4250-04	.5149-04	.3040-01	.2003	532.5
193	157.50	.70000	229.00	.3233-02	.3911-02	.3911-02	.9000	.5513-04	.6669-04	.3971-01	.2974	527.4
193	157.50	.80000	231.00	.2870-02	.3471-02	.3471-02	.9000	.4894-04	.5918-04	.3529-01	.2479	526.6
193	180.00	.40000	182.00	.2094-02	.2535-02	.2535-02	.9000	.3571-04	.4323-04	.2561-01	.2209	530.6
193	180.00	.50000	184.00	.2048-02	.2479-02	.2479-02	.9000	.3493-04	.4227-04	.2507-01	.2251	529.8

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

(R4UA21)

OH84B 60-0 FUSELAGE

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
193	180.00	.60000	186.00	.2601-02	.3147-02	.3147-02	.9000	.4435-04	.5366-04	.3190-01	.2865	528.5
193	180.00	.70000	188.00	.2550-02	.3085-02	.3085-02	.9000	.4348-04	.5260-04	.3129-01	.2811	528.1
193	180.00	.80000	190.00	.2954-02	.3573-02	.3573-02	.9000	.5037-04	.6093-04	.3628-01	.3544	527.4
193	180.00	.40000	234.00	.1495-02	.1809-02	.1809-02	.9000	.2549-04	.3085-04	.1830-01	.1369	529.8
193	315.00	.50000	236.00	.2558-02	.3096-02	.3096-02	.9000	.4362-04	.5279-04	.3132-01	.1953	529.5
193	315.00	.70000	240.00	.1765-02	.2135-02	.2135-02	.9000	.3010-04	.3640-04	.2168-01	.1623	527.5
193	315.00	.80000	242.00	.1587-02	.1919-02	.1919-02	.9000	.2706-04	.3272-04	.1952-01	.1371	526.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
180	1.002	7.940	39.98	-1.002	205.1	1263.	92.78	.2206-01	.9736	3749.	.6418-03	.7466-07
181	.9960	7.940	39.97	-1.003	203.7	1262.	92.71	.2191-01	.9670	3748.	.6379-03	.7460-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
180	.2421-01	.4055-01
181	.2412-01	.4067-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
180	.00000	.00000	1.0000	.4683	.5744	.5107	.9550	.1134-01	.1236-01	7.749	42.41	579.1
180	.00000	.50000-02	2.0000	.5184	.6413	.5316	.9870	.1255-01	.1287-01	8.271	55.90	603.6
180	.00000	.10000-01	3.0000	.4784	.5901	.4905	.9870	.1158-01	.1187-01	7.727	50.84	595.5
180	.00000	.20000-01	4.0000	.3571	.4362	.3719	.9782	.8645-02	.9002-02	6.021	33.16	566.2
181	.00000	.30000-01	5.0000	.2761	.3369	.2922	.9694	.6661-02	.7049-02	4.657	25.70	562.5
181	.00000	.40000-01	6.0000	.2543	.3100	.2721	.9635	.6133-02	.6564-02	4.303	23.77	560.1
181	.00000	.50000-01	7.0000	.2199	.2684	.2376	.9589	.5305-02	.5731-02	3.702	24.74	563.8
181	.00000	.60000-01	8.0000	.2271	.2772	.2469	.9555	.5477-02	.5956-02	3.823	24.09	563.7
181	.00000	.70000-01	9.0000	.1954	.2385	.2139	.9521	.4714-02	.5160-02	3.294	22.71	563.0
181	.00000	.80000-01	10.000	.1611	.1964	.1772	.9495	.3885-02	.4273-02	2.728	18.84	559.6
181	.00000	.90000-01	11.000	.1521	.1852	.1678	.9476	.3669-02	.4048-02	2.591	16.40	555.4
181	.00000	.10000+00	12.000	.1420	.1729	.1573	.9457	.3426-02	.3794-02	2.421	14.49	555.1
181	.00000	.12000	13.000	.1259	.1531	.1400	.9432	.3036-02	.3377-02	2.156	11.96	551.7
181	.00000	.13000	14.000	.1246	.1515	.1388	.9423	.3005-02	.3349-02	2.132	12.45	552.2
181	.00000	.14000	15.000	.1191	.1449	.1329	.9417	.2872-02	.3205-02	2.031	12.86	554.6
181	.00000	.15000	16.000	.1223	.1488	.1366	.9413	.2950-02	.3295-02	2.086	12.84	554.5
181	.00000	.16000	17.000	.1206	.1468	.1349	.9406	.2910-02	.3254-02	2.058	12.67	554.2
181	.00000	.17000	18.000	.1195	.1455	.1338	.9400	.2882-02	.3228-02	2.035	12.88	555.6
181	.00000	.18000	19.000	.1173	.1429	.1315	.9396	.2831-02	.3173-02	2.000	12.66	555.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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(R4UA21)

OH84B 60-0 FUSELAGE

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
181	.00000	.20000	21.000	.1130	.1375	.1269	.9383	.2725-02	.3062-02	1.929	12.22	553.8
181	.00000	.25000	23.000	.1031	.1255	.1163	.9361	.2486-02	.2807-02	1.754	11.10	556.1
181	.00000	.30000	24.000	.9656-01	.1176	.1090	.9361	.2329-02	.2629-02	1.643	10.40	556.1
181	.00000	.35000	25.000	.9877-01	.1203	.1115	.9361	.2382-02	.2690-02	1.679	10.62	556.8
181	.00000	.40000	26.000	.9476-01	.1155	.1070	.9361	.2286-02	.2582-02	1.607	10.45	558.7
181	.00000	.45000	1027.0	.8382-01	.1022	.9468-01	.9361	.2022-02	.2284-02	1.420	9.511	559.4
181	.00000	.50000	1028.0	.7654-01	.9330-01	.8646-01	.9361	.1846-02	.2085-02	1.297	8.958	559.4
181	.00000	.55000	1029.0	.7535-01	.9193-01	.8516-01	.9361	.1818-02	.2054-02	1.271	9.355	562.2
181	.00000	.60000	1030.0	.6909-01	.8428-01	.7807-01	.9361	.1666-02	.1893-02	1.167	8.586	561.7
181	.00000	.65000	1031.0	.6298-01	.7685-01	.7118-01	.9361	.1519-02	.1717-02	1.062	7.812	562.6
181	.00000	.70000	1032.0	.6272-01	.7653-01	.7089-01	.9361	.1513-02	.1710-02	1.057	8.047	562.7
181	.00000	.75000	1033.0	.5784-01	.7059-01	.6538-01	.9361	.1395-02	.1577-02	.9752	7.174	562.8
181	.00000	.80000	1034.0	.6179-01	.7538-01	.6983-01	.9361	.1490-02	.1684-02	1.043	7.673	562.1
181	.00000	.85000	1035.0	.5752-01	.7015-01	.6572-01	.9307	.1388-02	.1585-02	.9724	7.407	560.9
181	10.000	.10000+00	45.000	.1510	.1838	.1838	.9000	.3643-02	.4433-02	2.579	15.89	553.7
181	14.000	.50000-01	44.000	.2113	.2574	.2574	.9000	.5096-02	.6209-02	3.586	24.79	557.9
181	20.000	.10000+00	207.00	.2031	.2476	.2476	.9000	.4900-02	.5974-02	3.438	20.00	559.9
181	20.000	.15000	211.00	.1354	.1648	.1648	.9000	.3267-02	.3976-02	2.313	14.65	553.8
181	22.000	.50000-01	202.00	.2541	.3096	.3096	.9000	.6129-02	.7467-02	4.316	23.87	557.5
181	24.000	.20000	48.000	.9922-01	.1209	.1209	.9000	.2393-02	.2915-02	1.686	14.93	557.1
181	24.500	.10000+00	208.00	.2078	.2534	.2534	.9000	.5013-02	.6113-02	3.513	22.17	560.8
181	25.500	.15000	212.00	.1432	.1748	.1748	.9000	.3455-02	.4215-02	2.416	21.33	562.5
181	31.500	.20000	215.00	.1004	.1224	.1224	.9000	.2421-02	.2952-02	1.697	17.04	560.6
181	35.000	.50000-01	203.00	.1721	.2092	.2092	.9000	.4152-02	.5046-02	2.954	18.75	550.1
181	35.000	.20000	216.00	.1052	.1283	.1283	.9000	.2538-02	.3095-02	1.780	17.88	560.4
181	39.000	.10000+00	209.00	.9388-01	.1139	.1139	.9000	.2264-02	.2747-02	1.626	10.35	543.8
181	40.000	.15000	213.00	.1668	.2036	.2036	.9000	.4022-02	.4911-02	2.806	20.62	564.2
181	40.000	.20000	217.00	.9515-01	.1162	.1162	.9000	.2295-02	.2802-02	1.600	17.65	564.4
181	42.500	.50000-01	204.00	.7650-01	.9271-01	.9271-01	.9000	.1845-02	.2236-02	1.331	9.005	540.2
181	45.500	.15000	214.00	.8310-01	.1008	.1008	.9000	.2005-02	.2431-02	1.442	8.458	542.5
181	51.000	.20000	218.00	.4496-01	.5450-01	.5450-01	.9000	.1085-02	.1315-02	.7821	4.987	540.6
181	60.000	.50000-01	205.00	.2203-01	.2665-01	.2665-01	.9000	.5315-03	.6427-03	.3873	2.629	533.0
181	67.500	.20000	219.00	.2490-01	.3017-01	.3017-01	.9000	.6007-03	.7278-03	.4341	3.231	539.1
181	96.500	.20000	1220.0	.2098-01	.2541-01	.2541-01	.9000	.5061-03	.6130-03	.3661	2.639	538.3
180	114.00	.40000	388.00	.2142-01	.2595-01	.2595-01	.9000	.5186-03	.6282-03	.3751	2.702	539.3
180	114.00	.50000	390.00	.2206-01	.2672-01	.2672-01	.9000	.5340-03	.6467-03	.3869	2.402	538.1
180	114.00	.70000	394.00	.3641-02	.4403-02	.4403-02	.9000	.8813-04	.1066-03	.6428-01	.4235	533.4
180	157.50	.40000	223.00	.3187-02	.3856-02	.3856-02	.9000	.7716-04	.9335-04	.5618-01	.3699	534.6
180	157.50	.50000	225.00	.3003-02	.3634-02	.3634-02	.9000	.7270-04	.8797-04	.5291-01	.3483	534.9
180	157.50	.70000	229.00	.6324-02	.7648-02	.7648-02	.9000	.1531-03	.1851-03	.1117	.8342	533.0
180	157.50	.80000	231.00	.4662-02	.5635-02	.5635-02	.9000	.1129-03	.1364-03	.8256-01	.5785	531.2
180	180.00	.40000	182.00	.3022-02	.3657-02	.3657-02	.9000	.7316-04	.8853-04	.5320-01	.4578	535.5
180	180.00	.50000	184.00	.3576-02	.4327-02	.4327-02	.9000	.8658-04	.1048-03	.6300-01	.5640	535.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA21)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
180	180.00	.60000	186.00	.3789-02	.4583-02	.4583-02	.9000	.9171-04	.1109-03	.6682-01	.5985	534.1
180	180.00	.70000	188.00	.2597-02	.3140-02	.3140-02	.9000	.6286-04	.7602-04	.4585-01	.4108	533.3
180	180.00	.80000	190.00	.1817-02	.2196-02	.2196-02	.9000	.4398-04	.5316-04	.3215-01	.3134	531.6
180	315.00	.40000	234.00	.1659-02	.2006-02	.2006-02	.9000	.4015-04	.4857-04	.2926-01	.2184	534.0
180	315.00	.50000	236.00	.2251-02	.2722-02	.2722-02	.9000	.5448-04	.6590-04	.3972-01	.2471	533.6
180	315.00	.70000	240.00	.2036-02	.2462-02	.2462-02	.9000	.4930-04	.5959-04	.3604-01	.2693	531.7
180	315.00	.80000	242.00	.1612-02	.1947-02	.1947-02	.9000	.3901-04	.4713-04	.2858-01	.2004	530.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
168	2.006	7.980	40.02	-1.016	435.8	1302.	94.76	.4537-01	2.023	3808.	.1292-02	.7626-07
169	2.008	7.980	40.02	-1.013	435.3	1300.	94.62	.4532-01	2.020	3805.	.1293-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
168	.3507-01	.2867-01
169	.3505-01	.2866-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODQ BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
168	.00000	.00000	1.0000	.4691	.5788	.5129	.9549	.1645-01	.1799-01	11.29	60.70	315.3
168	.00000	.50000-02	2.0000	.5139	.6427	.5276	.9870	.1802-01	.1851-01	11.70	77.26	652.3
168	.00000	.10000-01	3.0000	.4755	.5920	.4880	.9870	.1668-01	.1711-01	11.03	71.00	640.3
168	.00000	.20000-01	4.0000	.3583	.4400	.3734	.9782	.1257-01	.1310-01	8.810	47.71	600.6
169	.00000	.30000-01	5.0000	.2743	.3357	.2905	.9695	.9612-02	.1018-01	6.828	37.18	589.3
169	.00000	.40000-01	6.0000	.2504	.3061	.2682	.9636	.8774-02	.9398-02	6.266	34.18	585.5
169	.00000	.50000-01	7.0000	.2149	.2632	.2324	.9590	.7531-02	.8144-02	5.332	35.15	591.7
169	.00000	.60000-01	8.0000	.2230	.2731	.2428	.9556	.7815-02	.8508-02	5.534	34.40	591.6
169	.00000	.70000-01	9.0000	.1912	.2341	.2095	.9522	.6699-02	.7342-02	4.751	32.32	590.5
169	.00000	.80000-01	10.000	.1589	.1943	.1750	.9496	.5568-02	.6132-02	3.969	27.05	586.9
169	.00000	.90000-01	11.000	.1521	.1856	.1680	.9477	.5331-02	.5887-02	3.835	23.97	580.3
169	.00000	.10000+00	12.000	.1414	.1725	.1567	.9458	.4957-02	.5492-02	3.578	21.18	577.9
169	.00000	.12000	13.000	.1227	.1494	.1366	.9433	.4301-02	.4786-02	3.127	17.17	572.6
169	.00000	.13000	14.000	.1216	.1481	.1356	.9424	.4251-02	.4751-02	3.092	17.86	574.0
169	.00000	.14000	15.000	.1186	.1446	.1324	.9418	.4155-02	.4642-02	3.000	18.78	577.6
169	.00000	.15000	16.000	.1216	.1484	.1360	.9414	.4263-02	.4766-02	3.077	18.72	577.8
169	.00000	.16000	17.000	.1202	.1466	.1345	.9407	.4212-02	.4715-02	3.042	18.51	577.6
169	.00000	.17000	18.000	.1173	.1431	.1315	.9401	.4111-02	.4609-02	2.961	18.51	579.5
169	.00000	.18000	19.000	.1166	.1422	.1308	.9397	.4085-02	.4584-02	2.943	18.41	579.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA21)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
169	.00000	.20000	21.000	.1131	.1380	.1272	.9384	.3965-02	.4459-02	2.863	17.92	577.6
169	.00000	.25000	23.000	.1013	.1236	.1145	.9362	.3549-02	.4012-02	2.551	15.94	580.9
169	.00000	.30000	24.000	.9603-01	.1173	.1086	.9362	.3365-02	.3805-02	2.413	15.07	582.6
169	.00000	.35000	25.000	.9770-01	.1194	.1105	.9362	.3424-02	.3873-02	2.448	15.27	584.6
169	.00000	.40000	26.000	.9446-01	.1156	.1069	.9362	.3310-02	.3747-02	2.354	15.09	588.5
169	.00000	.45000	1027.0	.8216-01	.1006	.9301-01	.9362	.2879-02	.3260-02	2.045	13.49	589.5
169	.00000	.50000	1028.0	.7538-01	.9227-01	.8534-01	.9362	.2642-02	.2991-02	1.876	12.77	589.6
169	.00000	.55000	1029.0	.7382-01	.9054-01	.8367-01	.9362	.2587-02	.2932-02	1.821	13.18	595.7
169	.00000	.60000	1030.0	.6910-01	.8472-01	.7830-01	.9362	.2421-02	.2744-02	1.706	12.35	595.0
169	.00000	.65000	1031.0	.6026-01	.7390-01	.6830-01	.9362	.2112-02	.2393-02	1.487	10.76	595.7
169	.00000	.70000	1032.0	.6336-01	.7757-01	.7174-01	.9362	.2220-02	.2514-02	1.575	11.83	590.2
169	.00000	.75000	1033.0	.5912-01	.7236-01	.6693-01	.9362	.2072-02	.2345-02	1.471	10.68	589.5
169	.00000	.80000	1034.0	.7064-01	.8649-01	.7999-01	.9362	.2476-02	.2803-02	1.756	12.74	590.5
169	.00000	.85000	1035.0	.7149-01	.8753-01	.8187-01	.9308	.2505-02	.2869-02	1.776	13.33	590.6
169	10.000	.10000+00	45.000	.1520	.1861	.1861	.9000	.5348-02	.6524-02	3.856	23.45	578.7
169	14.000	.50000-01	44.000	.2099	.2566	.2566	.9000	.7355-02	.8993-02	5.248	35.78	586.1
169	20.000	.10000+00	207.00	.2057	.2517	.2517	.9000	.7209-02	.8820-02	5.128	29.41	588.3
169	20.000	.15000	211.00	.1337	.1630	.1630	.9000	.4695-02	.5714-02	3.384	21.18	577.4
169	22.000	.50000-01	202.00	.2498	.3053	.3053	.9000	.8754-02	.1070-01	6.257	34.14	584.9
169	24.000	.20000	48.000	.9733-01	.1189	.1189	.9000	.3411-02	.4167-02	2.443	21.34	583.5
169	24.500	.10000+00	208.00	.2055	.2515	.2515	.9000	.7201-02	.8815-02	5.111	31.80	589.9
169	25.500	.15000	212.00	.1370	.1678	.1678	.9000	.4802-02	.5882-02	3.399	29.58	591.8
169	31.500	.20000	215.00	.9900-01	.1212	.1212	.9000	.3470-02	.4248-02	2.461	24.35	590.4
169	35.000	.50000-01	203.00	.1727	.2102	.2102	.9000	.6051-02	.7367-02	4.400	27.61	572.4
169	35.000	.20000	216.00	.1033	.1265	.1265	.9000	.3621-02	.4433-02	2.571	25.45	589.7
169	39.000	.10000+00	209.00	.9419-01	.1142	.1142	.9000	.3301-02	.4003-02	2.445	15.45	558.9
169	40.000	.15000	213.00	.1648	.2021	.2021	.9000	.5777-02	.7082-02	4.073	29.49	594.6
169	40.000	.20000	217.00	.9338-01	.1144	.1144	.9000	.3272-02	.4011-02	2.310	25.10	593.8
169	42.500	.50000-01	204.00	.7899-01	.9323-01	.9323-01	.9000	.2698-02	.3267-02	2.013	13.52	553.6
169	45.500	.15000	214.00	.8631-01	.1047	.1047	.9000	.3025-02	.3668-02	2.243	13.05	558.2
169	51.000	.20000	218.00	.4607-01	.5579-01	.5579-01	.9000	.1615-02	.1955-02	1.205	7.634	553.4
169	60.000	.50000-01	205.00	.2175-01	.2624-01	.2624-01	.9000	.7621-03	.9196-03	.5784	3.911	540.7
169	67.500	.20000	219.00	.2511-01	.3038-01	.3038-01	.9000	.8802-03	.1065-02	.6598	4.885	550.0
169	96.500	.20000	1220.0	.2107-01	.2548-01	.2548-01	.9000	.7385-03	.8931-03	.5545	3.975	548.9
168	114.00	.40000	388.00	.1894-01	.2291-01	.2291-01	.9000	.6643-03	.8035-03	.4993	3.577	550.1
168	114.00	.50000	390.00	.1931-01	.2335-01	.2335-01	.9000	.6773-03	.8190-03	.5097	3.146	549.2
168	114.00	.70000	394.00	.5890-02	.7111-02	.7111-02	.9000	.2066-03	.2494-03	.1566	1.027	543.4
168	157.50	.40000	223.00	.6376-02	.7696-02	.7696-02	.9000	.2236-03	.2699-03	.1698	1.113	542.6
168	157.50	.50000	225.00	.5935-02	.7161-02	.7161-02	.9000	.2282-03	.2512-03	.1583	1.038	541.4
168	157.50	.70000	229.00	.6363-02	.7676-02	.7676-02	.9000	.2232-03	.2692-03	.1699	1.264	540.6
168	157.50	.80000	231.00	.7174-02	.8650-02	.8650-02	.9000	.2516-03	.3034-03	.1920	1.340	538.8
168	180.00	.40000	182.00	.4101-02	.4950-02	.4950-02	.9000	.1439-03	.1736-03	.1092	.9361	542.7
168	180.00	.50000	184.00	.5196-02	.6271-02	.6271-02	.9000	.1822-03	.2199-03	.1384	1.234	542.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA21)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
168	180.00	.60000	186.00	.4483-02	.5408-02	.5408-02	.9000	.1572-03	.1897-03	.1196	1.067	541.1
168	180.00	.70000	188.00	.3335-02	.4022-02	.4022-02	.9000	.1170-03	.1411-03	.8904-01	.7950	540.4
168	180.00	.80000	190.00	.2488-02	.3000-02	.3000-02	.9000	.8728-04	.1052-03	.6664-01	.6474	538.1
168	315.00	.40000	234.00	.1328-02	.1602-02	.1602-02	.9000	.4658-04	.5620-04	.3540-01	.2632	541.7
168	315.00	.50000	236.00	.1670-02	.2016-02	.2016-02	.9000	.5858-04	.7070-04	.4449-01	.2756	542.2
168	315.00	.70000	240.00	.3085-02	.3722-02	.3722-02	.9000	.1092-03	.1305-03	.8234-01	.6124	540.8
168	315.00	.80000	242.00	.2199-02	.2651-02	.2651-02	.9000	.7714-04	.9300-04	.5887-01	.4110	538.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
86	3.010	7.990	40.08	-1.034	669.1	1319.	95.78	.6910-01	3.088	3833.	.1947-02	.7707-07
88	3.008	7.990	40.09	-1.038	670.2	1321.	95.92	.6921-01	3.093	3836.	.1947-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
86	.4344-01	.2338-01
88	.4348-01	.2339-01

TEST DATA

RUN NUMBER	PHI	X8/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
86	.00000	.00000	1.0000	.4685	.5790	.5127	.9548	.2035-01	.2227-01	14.06	75.13	627.8
86	.00000	.50000-02	2.0000	.5133	.6448	.5272	.9870	.2229-01	.2290-01	14.41	94.25	672.1
86	.00000	.10000-01	3.0000	.4753	.5939	.4879	.9870	.2064-01	.2119-01	13.63	86.95	658.6
86	.00000	.20000-01	4.0000	.3585	.4400	.3734	.9783	.1557-01	.1622-01	11.08	59.80	607.1
88	.00000	.30000-01	5.0000	.2723	.3329	.2882	.9696	.1184-01	.1253-01	8.582	46.58	595.7
88	.00000	.40000-01	6.0000	.2493	.3045	.2669	.9637	.1084-01	.1161-01	7.901	42.97	591.9
88	.00000	.50000-01	7.0000	.2146	.2627	.2320	.9591	.9333-02	.1009-01	6.735	44.23	599.1
88	.00000	.60000-01	8.0000	.2225	.2724	.2421	.9558	.9676-02	.1053-01	6.982	43.24	599.1
88	.00000	.70000-01	9.0000	.1920	.2349	.2103	.9524	.8349-02	.9145-02	6.031	40.87	598.3
88	.00000	.80000-01	10.000	.1561	.1906	.1717	.9497	.6786-02	.7467-02	4.942	33.59	592.3
88	.00000	.90000-01	11.000	.1512	.1844	.1668	.9478	.6574-02	.7255-02	4.823	30.05	587.0
88	.00000	.10000+00	12.000	.1414	.1723	.1565	.9460	.6147-02	.6807-02	4.525	26.70	584.6
88	.00000	.12000	13.000	.1222	.1487	.1359	.9434	.5314-02	.5909-02	3.943	21.58	578.7
88	.00000	.13000	14.000	.1221	.1486	.1360	.9426	.5308-02	.5914-02	3.930	22.63	580.3
88	.00000	.14000	15.000	.1194	.1454	.1332	.9420	.5193-02	.5794-02	3.835	23.95	582.1
88	.00000	.15000	16.000	.1226	.1494	.1369	.9415	.5330-02	.5955-02	3.922	23.78	584.8
88	.00000	.16000	17.000	.1209	.1474	.1353	.9409	.5258-02	.5882-02	3.869	23.46	584.8
88	.00000	.17000	18.000	.1180	.1439	.1322	.9403	.5131-02	.5749-02	3.765	23.46	586.9
88	.00000	.18000	19.000	.1150	.1402	.1289	.9398	.5000-02	.5606-02	3.676	22.91	585.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA21)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(10) BTU/R FT2SLC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
88	.00000	.20000	21.000	.1129	.1376	.1269	.9385	.4909-02	.5517-02	3.612	22.53	584.8
88	.00000	.25000	23.000	.1011	.1234	.1142	.9364	.4396-02	.4966-02	3.218	20.03	588.8
88	.00000	.30000	24.000	.9545-01	.1165	.1078	.9364	.4151-02	.4689-02	3.034	18.88	589.6
88	.00000	.35000	25.000	.9661-01	.1180	.1092	.9364	.4201-02	.4748-02	3.061	19.02	592.1
88	.00000	.40000	26.000	.9571-01	.1171	.1083	.9364	.4162-02	.4708-02	3.011	19.21	597.2
88	.00000	.45000	1027.0	.8362-01	.1024	.9463-01	.9364	.3636-02	.4115-02	2.623	17.23	599.1
88	.00000	.50000	1028.0	.7632-01	.9343-01	.8638-01	.9364	.3319-02	.3756-02	2.394	16.21	599.4
88	.00000	.55000	1029.0	.8128-01	.9996-01	.9225-01	.9364	.3534-02	.4011-02	2.498	17.92	613.8
88	.00000	.60000	1030.0	.7515-01	.9228-01	.8521-01	.9364	.3268-02	.3705-02	2.326	16.72	609.0
88	.00000	.65000	1031.0	.7391-01	.9084-01	.8385-01	.9364	.3214-02	.3646-02	2.277	16.35	612.1
88	.00000	.70000	1032.0	.9397-01	.1155	.1066	.9364	.4086-02	.4636-02	2.896	21.51	611.9
88	.00000	.75000	1033.0	.1156	.1423	.1313	.9364	.5026-02	.5709-02	3.532	25.28	618.0
88	.00000	.80000	1034.0	.1513	.1866	.1720	.9364	.6577-02	.7478-02	4.590	32.78	622.9
88	.00000	.85000	1035.0	.1710	.2112	.1959	.9310	.7438-02	.8561-02	5.168	38.12	625.9
88	10.000	.10000+00	45.000	.1529	.1863	.1863	.9000	.6649-02	.8103-02	4.895	29.68	584.5
88	14.000	.50000-01	44.000	.2086	.2546	.2546	.9000	.9069-02	.1107-01	6.628	45.10	589.9
88	20.000	.10000+00	207.00	.2059	.2516	.2516	.9000	.8953-02	.1094-01	6.506	37.20	594.0
88	20.000	.15000	211.00	.1348	.1642	.1642	.9000	.5851-02	.7142-02	4.317	26.94	584.1
88	22.000	.50000-01	202.00	.2525	.3081	.3081	.9000	.1098-01	.1340-01	8.045	43.83	588.0
88	24.000	.20000	48.000	.9738-01	.1189	.1189	.9000	.4234-02	.5172-02	3.086	26.85	592.0
88	24.500	.10000+00	208.00	.2091	.2557	.2557	.9000	.9093-02	.1112-01	6.595	40.91	595.4
88	25.500	.15000	212.00	.1363	.1667	.1667	.9000	.5928-02	.7248-02	4.298	37.33	595.6
88	31.500	.20000	215.00	.1007	.1233	.1233	.9000	.4379-02	.5361-02	3.156	31.08	599.9
88	35.000	.50000-01	203.00	.1746	.2121	.2121	.9000	.7594-02	.9223-02	5.679	35.63	572.9
88	35.000	.20000	216.00	.1053	.1289	.1289	.9000	.4579-02	.5605-02	3.305	32.57	598.9
88	39.000	.10000+00	209.00	.9602-01	.1163	.1163	.9000	.4175-02	.5056-02	3.167	19.97	562.2
88	40.000	.15000	213.00	.1704	.2088	.2088	.9000	.7410-02	.9078-02	5.326	38.43	601.9
88	40.000	.20000	217.00	.1036	.1270	.1270	.9000	.4504-02	.5522-02	3.228	34.90	604.0
88	42.500	.50000-01	204.00	.7893-01	.9527-01	.9527-01	.9000	.3428-02	.4143-02	2.624	17.61	555.3
88	45.500	.15000	214.00	.8717-01	.1055	.1055	.9000	.3791-02	.4588-02	2.882	16.76	560.4
88	51.000	.20000	218.00	.4576-01	.5529-01	.5529-01	.9000	.1990-02	.2404-02	1.523	9.643	555.0
88	60.000	.50000-01	205.00	.2118-01	.2549-01	.2549-01	.9000	.9209-03	.1109-02	.7180	4.855	540.9
88	67.500	.20000	219.00	.2581-01	.3117-01	.3117-01	.9000	.1122-02	.1356-02	.8620	6.374	552.7
88	96.500	.20000	1220.0	.2220-01	.2679-01	.2679-01	.9000	.9652-03	.1165-02	.7434	5.325	550.5
86	114.00	.40000	388.00	.1898-01	.2291-01	.2291-01	.9000	.8246-03	.9951-03	.6346	4.549	549.1
86	114.00	.50000	390.00	.2610-01	.3150-01	.3150-01	.9000	.1134-02	.1368-02	.8724	5.385	549.3
86	114.00	.70000	394.00	.9428-02	.1136-01	.1136-01	.9000	.4095-03	.4934-03	.3177	2.083	542.8
86	157.50	.40000	223.00	.6038-02	.7268-02	.7268-02	.9000	.2623-03	.3157-03	.2043	1.342	539.7
86	157.50	.50000	225.00	.1322-01	.1592-01	.1592-01	.9000	.5744-03	.6917-03	.4465	2.930	541.3
86	157.50	.70000	229.00	.5374-02	.6465-02	.6465-02	.9000	.2334-03	.2808-03	.1824	1.360	537.1
86	157.50	.80000	231.00	.5551-02	.6674-02	.6674-02	.9000	.2411-03	.2899-03	.1889	1.321	535.4
86	180.00	.40000	182.00	.6255-02	.7533-02	.7533-02	.9000	.2717-03	.3272-03	.2112	1.813	541.2
86	180.00	.50000	184.00	.6522-02	.7853-02	.7853-02	.9000	.2833-03	.3411-03	.2203	1.967	540.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA21)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
86	180.00	.60000	186.00	.5345-02	.6435-02	.6435-02	.9000	.2322-03	.2795-03	.1808	1.615	539.8
86	180.00	.70000	188.00	.3863-02	.4648-02	.4648-02	.9000	.1678-03	.2019-03	.1310	1.171	537.8
86	180.00	.80000	190.00	.2745-02	.3302-02	.3302-02	.9000	.1192-03	.1434-03	.9331-01	.9075	536.1
86	315.00	.40000	234.00	.1455-02	.1751-02	.1751-02	.9000	.6320-04	.7607-04	.4929-01	.3670	538.8
86	315.00	.50000	236.00	.1760-02	.2118-02	.2118-02	.9000	.7645-04	.9200-04	.5964-01	.3701	538.5
86	315.00	.70000	240.00	.4989-02	.6003-02	.6003-02	.9000	.2167-03	.2608-03	.1692	1.260	538.1
86	315.00	.80000	242.00	.2361-02	.2839-02	.2839-02	.9000	.1025-03	.1233-03	.8029-01	.5613	535.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
17	X10 6	7.900	40.02	-.3159-02	99.80	1246.	92.40	.1109-01	.4846	3723.	.3240-03	.7435-07
18	.5042 .5054	7.900	40.00	-.3140-02	100.3	1248.	92.54	.1114-01	.4869	3726.	.3250-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
17	.1704-01	.5699-01
18	.1708-01	.5691-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
17	.00000	.00000	1.0000	.4794	.5881	.5230	.9550	.8168-02	.8910-02	5.507	30.25	571.5
17	.00000	.50000-02	2.0000	.5275	.6500	.5408	.9870	.8988-02	.9214-02	5.945	40.56	584.3
17	.00000	.10000-01	3.0000	.4892	.6015	.5014	.9870	.8335-02	.8542-02	5.561	36.90	578.5
17	.00000	.20000-01	4.0000	.3626	.4433	.3776	.9782	.6178-02	.6433-02	4.231	23.37	560.8
18	.00000	.30000-01	5.0000	.2776	.3386	.2937	.9695	.4742-02	.5018-02	3.282	18.17	555.6
18	.00000	.40000-01	6.0000	.2574	.3139	.2755	.9635	.4397-02	.4706-02	3.049	16.90	554.2
18	.00000	.50000-01	7.0000	.2227	.2717	.2405	.9539	.3804-02	.4108-02	2.629	17.64	556.5
18	.00000	.60000-01	8.0000	.2303	.2810	.2504	.9556	.3934-02	.4277-02	2.720	17.20	556.4
18	.00000	.70000-01	9.0000	.1977	.2412	.2164	.9522	.3378-02	.3697-02	2.337	16.18	555.7
18	.00000	.80000-01	10.000	.1635	.1995	.1799	.9495	.2794-02	.3073-02	1.935	13.40	554.9
18	.00000	.90000-01	11.000	.1567	.1909	.1729	.9477	.2677-02	.2954-02	1.863	11.81	551.9
18	.00000	.10000+00	12.000	.1448	.1764	.1604	.9458	.2474-02	.2740-02	1.723	10.34	551.0
18	.00000	.12000	13.000	.1281	.1560	.1426	.9432	.2189-02	.2436-02	1.530	8.502	548.6
18	.00000	.13000	14.000	.1276	.1553	.1422	.9424	.2180-02	.2429-02	1.523	8.909	548.8
18	.00000	.14000	15.000	.1216	.1480	.1357	.9418	.2077-02	.2318-02	1.451	9.213	549.0
18	.00000	.15000	16.000	.1260	.1534	.1407	.9413	.2152-02	.2404-02	1.501	9.259	550.2
18	.00000	.16000	17.000	.1231	.1499	.1377	.9407	.2103-02	.2352-02	1.468	9.057	549.7
18	.00000	.17000	18.000	.1209	.1472	.1354	.9401	.2065-02	.2313-02	1.439	9.129	550.7
18	.00000	.18000	19.000	.1193	.1453	.1337	.9396	.2038-02	.2284-02	1.422	9.022	550.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA22)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
18	.00000	.20000	21.000	.1156	.1407	.1299	.9383	.1975-02	.2219-02	1.380	8.765	548.8
18	.00000	.25000	23.000	.1056	.1286	.1192	.9362	.1804-02	.2037-02	1.257	7.977	550.7
18	.00000	.30000	24.000	.1012	.1233	.1143	.9362	.1729-02	.1952-02	1.203	7.632	551.5
18	.00000	.35000	25.000	.1026	.1250	.1159	.9362	.1753-02	.1980-02	1.221	7.741	551.5
18	.00000	.40000	26.000	.1010	.1231	.1140	.9362	.1725-02	.1948-02	1.200	7.830	552.1
18	.00000	.45000	1027.0	.8643-01	.1054	.9762-01	.9362	.1476-02	.1668-02	1.025	6.889	553.3
18	.00000	.50000	1028.0	.8101-01	.9873-01	.9149-01	.9362	.1384-02	.1563-02	.9621	6.670	552.5
18	.00000	.55000	1029.0	.7794-01	.9505-01	.8805-01	.9362	.1331-02	.1504-02	.9227	6.815	554.7
18	.00000	.60000	1030.0	.7267-01	.8859-01	.8208-01	.9362	.1241-02	.1402-02	.8615	6.367	553.7
18	.00000	.65000	1031.0	.6705-01	.8176-01	.7575-01	.9362	.1146-02	.1294-02	.7945	5.871	554.1
18	.00000	.70000	1032.0	.6586-01	.8031-01	.7440-01	.9362	.1125-02	.1271-02	.7800	5.961	554.4
18	.00000	.75000	1033.0	.6246-01	.7615-01	.7055-01	.9362	.1067-02	.1205-02	.7405	5.472	553.7
18	.00000	.80000	1034.0	.6556-01	.7989-01	.7403-01	.9362	.1120-02	.1265-02	.7788	5.759	552.3
18	.00000	.85000	1035.0	.6039-01	.7357-01	.6894-01	.9308	.1032-02	.1178-02	.7186	5.500	551.2
18	10.000	.10000+00	45.000	.1537	.1872	.1872	.9000	.2626-02	.3197-02	1.832	11.30	549.9
18	14.000	.50000-01	44.000	.2123	.2585	.2585	.9000	.3626-02	.4417-02	2.528	17.54	550.5
18	20.000	.10000+00	207.00	.2079	.2534	.2534	.9000	.3551-02	.4329-02	2.465	14.38	553.6
18	20.000	.15000	211.00	.1377	.1677	.1677	.9000	.2353-02	.2864-02	1.643	10.43	549.1
18	22.000	.50000-01	202.00	.2539	.3092	.3092	.9000	.4337-02	.5282-02	3.026	16.80	550.0
18	24.000	.20000	48.000	.1008	.1227	.1227	.9000	.1722-02	.2097-02	1.200	10.65	550.8
18	24.500	.10000+00	208.00	.2102	.2563	.2563	.9000	.3592-02	.4379-02	2.492	15.79	553.8
18	25.500	.15000	212.00	.1453	.1773	.1773	.9000	.2483-02	.3028-02	1.721	15.25	554.6
18	31.500	.20000	215.00	.1015	.1238	.1238	.9000	.1735-02	.2115-02	1.204	12.13	553.8
18	35.000	.50000-01	203.00	.1694	.2060	.2060	.9000	.2894-02	.3520-02	2.032	12.93	545.6
18	35.000	.20000	216.00	.1059	.1291	.1291	.9000	.1809-02	.2206-02	1.256	12.65	553.6
18	39.000	.10000+00	209.00	.9237-01	.1122	.1122	.9000	.1578-02	.1917-02	1.112	7.084	542.8
18	40.000	.15000	213.00	.1654	.2019	.2019	.9000	.2826-02	.3448-02	1.953	14.41	556.6
18	40.000	.20000	217.00	.9586-01	.1169	.1169	.9000	.1638-02	.1998-02	1.133	12.55	555.7
18	42.500	.50000-01	204.00	.7566-01	.9184-01	.9184-01	.9000	.1293-02	.1569-02	.9157	6.197	539.2
18	45.500	.15000	214.00	.8169-01	.9926-01	.9926-01	.9000	.1396-02	.1696-02	.9842	5.775	542.5
18	51.000	.20000	218.00	.4370-01	.5306-01	.5306-01	.9000	.7465-03	.9064-03	.5277	3.365	540.7
18	60.000	.50000-01	205.00	.2313-01	.2803-01	.2803-01	.9000	.3951-03	.4789-03	.2818	1.911	534.5
18	67.500	.20000	219.00	.2395-01	.2907-01	.2907-01	.9000	.4091-03	.4965-03	.2900	2.159	538.9
18	96.500	.20000	1220.0	.2046-01	.2482-01	.2482-01	.9000	.3495-03	.4240-03	.2479	1.787	538.3
17	114.00	.40000	388.00	.2102-01	.2549-01	.2549-01	.9000	.3581-03	.4344-03	.2539	1.832	536.6
17	114.00	.50000	390.00	.1857-01	.2251-01	.2251-01	.9000	.3164-03	.3836-03	.2250	1.399	534.6
17	114.00	.70000	394.00	.1968-02	.2383-02	.2383-02	.9000	.3352-04	.4060-04	.2395-01	.1580	531.1
17	157.50	.40000	223.00	.2435-02	.2950-02	.2950-02	.9000	.4148-04	.5026-04	.2958-01	.1950	532.5
17	157.50	.50000	225.00	.2010-02	.2436-02	.2436-02	.9000	.3425-04	.4151-04	.2440-01	.1608	533.2
17	157.50	.70000	229.00	.3140-02	.3801-02	.3801-02	.9000	.5350-04	.6477-04	.3830-01	.2865	529.8
17	157.50	.80000	231.00	.5902-02	.7144-02	.7144-02	.9000	.1006-03	.1217-03	.7205-01	.5054	529.1
17	180.00	.40000	182.00	.2298-02	.2786-02	.2786-02	.9000	.3916-04	.4746-04	.2789-01	.2403	533.4
17	180.00	.50000	184.00	.2377-02	.2880-02	.2880-02	.9000	.4050-04	.4906-04	.2889-01	.2590	532.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA22)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
17	180.00	.60000	186.00	.2619-02	.3172-02	.3172-02	.9000	.4463-04	.5405-04	.3189-01	.2860	531.2
17	180.00	.70000	188.00	.2653-02	.3213-02	.3213-02	.9000	.4521-04	.5475-04	.3231-01	.2899	530.9
17	180.00	.80000	190.00	.6229-02	.7543-02	.7543-02	.9000	.1061-03	.1285-03	.7587-01	.7399	530.7
17	315.00	.40000	234.00	.1905-02	.2308-02	.2308-02	.9000	.3246-04	.3933-04	.2316-01	.1730	532.3
17	315.00	.50000	236.00	.2432-02	.2945-02	.2945-02	.9000	.4143-04	.5018-04	.2960-01	.1844	531.3
17	315.00	.70000	240.00	.1329-02	.1608-02	.1608-02	.9000	.2264-04	.2741-04	.1621-01	.1212	529.8
17	315.00	.80000	242.00	.3388-02	.4100-02	.4100-02	.9000	.5772-04	.6986-04	.4139-01	.2904	528.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
33	1.016	7.940	40.01	.1050-02	206.6	1257.	92.34	.2223-01	.9808	3740.	.6496-03	.7431-07
34	1.029	7.940	39.99	.1042-02	208.4	1254.	92.12	.2242-01	.9894	3736.	.6568-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
33	.2428-01	.4028-01
34	.2437-01	.4005-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
33	.00000	.00000	1.0000	.4710	.5779	.5138	.9550	.1143-01	.1247-01	7.764	42.52	577.6
33	.00000	.50000-02	2.0000	.5201	.6434	.5334	.9870	.1263-01	.1295-01	8.278	56.02	601.1
33	.00000	.10000-01	3.0000	.4769	.5883	.4889	.9870	.1158-01	.1187-01	7.683	50.62	593.0
33	.00000	.20000-01	4.0000	.3542	.4329	.3688	.9782	.8600-02	.8954-02	5.948	32.78	565.1
34	.00000	.30000-01	5.0000	.2763	.3383	.2927	.9695	.6734-02	.7133-02	4.610	25.35	569.2
34	.00000	.40000-01	6.0000	.2557	.3129	.2740	.9635	.6233-02	.6678-02	4.278	23.55	567.3
34	.00000	.50000-01	7.0000	.2200	.2695	.2380	.9589	.5363-02	.5800-02	3.665	24.42	570.2
34	.00000	.60000-01	8.0000	.2274	.2784	.2476	.9556	.5542-02	.6033-02	3.790	23.81	569.8
34	.00000	.70000-01	9.0000	.1944	.2380	.2131	.9521	.4738-02	.5193-02	3.245	22.31	568.9
34	.00000	.80000-01	10.0000	.1593	.1947	.1754	.9495	.3882-02	.4275-02	2.672	18.41	565.2
34	.00000	.90000-01	11.0000	.1522	.1858	.1681	.9476	.3709-02	.4097-02	2.570	16.22	560.9
34	.00000	.10000+00	12.0000	.1421	.1734	.1575	.9457	.3462-02	.3839-02	2.400	14.34	560.4
34	.00000	.12000	13.0000	.1252	.1527	.1394	.9432	.3051-02	.3399-02	2.127	11.77	556.8
34	.00000	.13000	14.0000	.1240	.1512	.1383	.9424	.3021-02	.3371-02	2.105	12.26	557.1
34	.00000	.14000	15.0000	.1197	.1459	.1337	.9417	.2917-02	.3258-02	2.031	12.84	557.4
34	.00000	.15000	16.0000	.1233	.1504	.1379	.9413	.3005-02	.3361-02	2.088	12.82	558.9
34	.00000	.16000	17.0000	.1205	.1470	.1349	.9407	.2937-02	.3289-02	2.042	12.55	558.4
34	.00000	.17000	18.0000	.1187	.1448	.1331	.9400	.2892-02	.3244-02	2.008	12.68	559.4
34	.00000	.18000	19.0000	.1167	.1424	.1309	.9396	.2844-02	.3191-02	1.977	12.50	558.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA22)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
34	.00000	.20000	21.000	.1138	.1387	.1280	.9383	.2773-02	.3119-02	1.933	12.23	556.5
34	.00000	.25000	23.000	.1036	.1263	.1170	.9362	.2525-02	.2853-02	1.758	11.11	557.4
34	.00000	.30000	24.000	.9727-01	.1186	.1099	.9362	.2371-02	.2678-02	1.652	10.45	556.9
34	.00000	.35000	25.000	.9917-01	.1209	.1120	.9362	.2417-02	.2730-02	1.684	10.65	556.9
34	.00000	.40000	26.000	.9490-01	.1158	.1072	.9362	.2313-02	.2614-02	1.607	10.46	558.7
34	.00000	.45000	1027.0	.8504-01	.1038	.9612-01	.9362	.2073-02	.2343-02	1.439	9.642	559.3
34	.00000	.50000	1028.0	.7676-01	.9365-01	.8674-01	.9362	.1871-02	.2114-02	1.300	8.984	558.7
34	.00000	.55000	1029.0	.7650-01	.9342-01	.8650-01	.9362	.1865-02	.2108-02	1.291	9.506	561.2
34	.00000	.60000	1030.0	.6958-01	.8494-01	.7865-01	.9362	.1696-02	.1917-02	1.176	8.659	560.4
34	.00000	.65000	1031.0	.6332-01	.7733-01	.7160-01	.9362	.1543-02	.1745-02	1.068	7.864	561.5
34	.00000	.70000	1032.0	.6263-01	.7649-01	.7082-01	.9362	.1526-02	.1726-02	1.056	8.037	562.0
34	.00000	.75000	1033.0	.5830-01	.7121-01	.6593-01	.9362	.1421-02	.1607-02	.9826	7.231	562.1
34	.00000	.80000	1034.0	.6154-01	.7516-01	.6959-01	.9362	.1500-02	.1696-02	1.037	7.633	562.1
34	.00000	.85000	1035.0	.5746-01	.7016-01	.6569-01	.9308	.1400-02	.1601-02	.9702	7.390	560.9
34	10.000	.10000+00	45.000	.1517	.1851	.1851	.9000	.3696-02	.4513-02	2.561	15.72	560.7
34	14.000	.50000-01	44.000	.2103	.2571	.2571	.9000	.5127-02	.6267-02	3.532	24.34	564.7
34	20.000	.10000+00	207.00	.2047	.2503	.2503	.9000	.4989-02	.6101-02	3.432	19.90	565.8
34	20.000	.15000	211.00	.1345	.1642	.1642	.9000	.3279-02	.4001-02	2.277	14.39	559.1
34	22.000	.50000-01	202.00	.2509	.3067	.3067	.9000	.6116-02	.7475-02	4.219	23.26	563.9
34	24.000	.20000	48.000	.9836-01	.1201	.1201	.9000	.2397-02	.2926-02	1.662	14.69	560.4
34	24.500	.10000+00	208.00	.2043	.2499	.2499	.9000	.4980-02	.6091-02	3.422	21.54	566.5
34	25.500	.15000	212.00	.1397	.1708	.1708	.9000	.3404-02	.4163-02	2.342	20.64	565.8
34	31.500	.20000	215.00	.9959-01	.1217	.1217	.9000	.2427-02	.2966-02	1.675	16.79	563.7
34	35.000	.50000-01	203.00	.1676	.2043	.2043	.9000	.4085-02	.4980-02	2.850	18.03	555.9
34	35.000	.20000	216.00	.1034	.1263	.1263	.9000	.2520-02	.3079-02	1.740	17.45	563.2
34	39.000	.10000+00	209.00	.9067-01	.1103	.1103	.9000	.2210-02	.2688-02	1.557	9.882	549.3
34	40.000	.15000	213.00	.1615	.1976	.1976	.9000	.3935-02	.4816-02	2.697	19.79	568.2
34	40.000	.20000	217.00	.9593-01	.1173	.1173	.9000	.2338-02	.2859-02	1.608	17.72	565.9
34	42.500	.50000-01	204.00	.7492-01	.9104-01	.9104-01	.9000	.1826-02	.2219-02	1.292	8.715	545.9
34	45.500	.15000	214.00	.8014-01	.9742-01	.9742-01	.9000	.1953-02	.2374-02	1.381	8.082	546.9
34	51.000	.20000	218.00	.4283-01	.5201-01	.5201-01	.9000	.1044-02	.1268-02	.7417	4.723	543.1
34	60.000	.50000-01	205.00	.2080-01	.2522-01	.2522-01	.9000	.5070-03	.6148-03	.3628	2.456	538.2
34	67.500	.20000	219.00	.2407-01	.2921-01	.2921-01	.9000	.5866-03	.7118-03	.4179	3.108	541.2
34	96.500	.20000	1220.0	.1993-01	.2417-01	.2417-01	.9000	.4856-03	.5891-03	.3466	2.496	539.9
33	114.00	.40000	388.00	.2029-01	.2458-01	.2458-01	.9000	.4925-03	.5968-03	.3542	2.554	537.6
33	114.00	.50000	390.00	.2101-01	.2546-01	.2546-01	.9000	.5102-03	.6180-03	.3675	2.283	536.4
33	114.00	.70000	394.00	.6741-03	.8155-03	.8155-03	.9000	.1636-04	.1980-04	.1186-01	.7815-01	532.2
33	157.50	.40000	223.00	.3274-02	.3962-02	.3962-02	.9000	.7947-04	.9618-04	.5747-01	.3786	533.5
33	157.50	.50000	225.00	.2813-02	.3405-02	.3405-02	.9000	.6830-04	.8267-04	.4937-01	.3252	533.7
33	157.50	.70000	229.00	.5953-02	.7202-02	.7202-02	.9000	.1445-03	.1748-03	.1047	.7821	532.2
33	157.50	.80000	231.00	.6520-02	.7886-02	.7886-02	.9000	.1583-03	.1914-03	.1149	.8051	530.9
33	180.00	.40000	182.00	.2644-02	.3201-02	.3201-02	.9000	.6419-04	.7770-04	.4641-01	.3998	533.7
33	180.00	.50000	184.00	.3527-02	.4269-02	.4269-02	.9000	.8563-04	.1036-03	.6194-01	.5550	533.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 141

OH84B 60-0 FUSELAGE

(R4UA22)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
33	180.00	.60000	186.00	.3866-02	.4678-02	.4678-02	.9000	.9386-04	.1136-03	.6794-01	.6089	532.8
33	180.00	.70000	188.00	.2781-02	.3364-02	.3364-02	.9000	.6751-04	.8167-04	.4892-01	.4387	531.9
33	180.00	.80000	190.00	.2653-02	.3208-02	.3208-02	.9000	.6441-04	.7789-04	.4676-01	.4561	530.6
33	315.00	.40000	234.00	.1432-02	.1733-02	.1733-02	.9000	.3478-04	.4208-04	.2517-01	.1880	532.9
33	315.00	.50000	236.00	.2142-02	.2592-02	.2592-02	.9000	.5201-04	.6293-04	.3766-01	.2344	532.5
33	315.00	.70000	240.00	.1151-02	.1392-02	.1392-02	.9000	.2795-04	.3380-04	.2028-01	.1516	531.2
33	315.00	.80000	242.00	.1912-02	.2311-02	.2311-02	.9000	.4641-04	.5611-04	.3373-01	.2365	529.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 142

OH84B 60-0 FUSELAGE

(R4UA22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
74	2.011	7.980	40.05	-.1426-06	436.5	1301.	94.69	.4544-01	2.026	3807.	.1295-02	.7620-07
75	2.004	7.980	40.04	-.1423-06	434.9	1301.	94.69	.4527-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
74	.3510-01	.2863-01
75	.3503-01	.2868-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
74	.00000	.00000	1.0000	.4695	.5773	.5127	.9549	.1648-01	.1799-01	11.48	62.05	604.1
74	.00000	.50000-02	2.0000	.5193	.6464	.5330	.9870	.1823-01	.1871-01	12.07	80.16	638.7
74	.00000	.10000-01	3.0000	.4799	.5949	.4922	.9870	.1684-01	.1728-01	11.33	73.34	628.2
74	.00000	.20000-01	4.0000	.3568	.4364	.3715	.9783	.1252-01	.1304-01	8.929	48.65	587.7
75	.00000	.30000-01	5.0000	.2742	.3348	.2902	.9696	.9605-02	.1017-01	6.898	37.68	582.5
75	.00000	.40000-01	6.0000	.2516	.3070	.2693	.9636	.8814-02	.9434-02	6.355	34.77	579.6
75	.00000	.50000-01	7.0000	.2164	.2644	.2338	.9590	.7581-02	.8191-02	5.427	35.90	584.8
75	.00000	.60000-01	8.0000	.2237	.2733	.2433	.9557	.7836-02	.8522-02	5.611	35.00	584.6
75	.00000	.70000-01	9.0000	.1922	.2348	.2105	.9523	.6735-02	.7373-02	4.829	32.96	583.6
75	.00000	.80000-01	10.000	.1584	.1933	.1743	.9496	.5549-02	.6105-02	3.994	27.30	580.9
75	.00000	.90000-01	11.000	.1517	.1848	.1674	.9477	.5315-02	.5864-02	3.859	24.19	574.5
75	.00000	.10000+00	12.000	.1406	.1711	.1556	.9459	.4924-02	.5452-02	3.586	21.28	572.5
75	.00000	.12000	13.000	.1237	.1504	.1376	.9433	.4335-02	.4819-02	3.178	17.49	567.5
75	.00000	.13000	14.000	.1222	.1486	.1361	.9425	.4281-02	.4768-02	3.135	18.15	568.5
75	.00000	.14000	15.000	.1184	.1440	.1320	.9419	.4147-02	.4625-02	3.031	19.04	569.8
75	.00000	.15000	16.000	.1207	.1469	.1347	.9414	.4227-02	.4720-02	3.079	18.79	572.2
75	.00000	.16000	17.000	.1199	.1459	.1340	.9408	.4200-02	.4696-02	3.061	18.68	571.7
75	.00000	.17000	18.000	.1184	.1442	.1326	.9402	.4148-02	.4645-02	3.017	18.92	573.4
75	.00000	.18000	19.000	.1155	.1406	.1294	.9397	.4045-02	.4534-02	2.945	18.48	572.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 143

OH84B 60-0 FUSELAGE

(R4UA22)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
75	.00000	.20000	21.000	.1123	.1367	.1262	.9384	.3935-02	.4420-02	2.870	18.02	571.2
75	.00000	.25000	23.000	.1013	.1234	.1143	.9363	.3549-02	.4005-02	2.576	16.14	574.7
75	.00000	.30000	24.000	.9679-01	.1180	.1093	.9363	.3391-02	.3829-02	2.456	15.39	576.2
75	.00000	.35000	25.000	.9853-01	.1201	.1113	.9363	.3452-02	.3899-02	2.495	15.62	577.7
75	.00000	.40000	26.000	.9548-01	.1165	.1079	.9363	.3345-02	.3780-02	2.406	15.48	581.2
75	.00000	.45000	1027.0	.8368-01	.1022	.9460-01	.9363	.2931-02	.3314-02	2.105	13.94	582.7
75	.00000	.50000	1028.0	.7753-01	.9458-01	.8759-01	.9363	.2716-02	.3068-02	1.959	13.40	579.3
75	.00000	.55000	1029.0	.7600-01	.9298-01	.8601-01	.9363	.2663-02	.3013-02	1.897	13.78	588.3
75	.00000	.60000	1030.0	.7017-01	.8581-01	.7939-01	.9363	.2458-02	.2781-02	1.754	12.75	587.1
75	.00000	.65000	1031.0	.6248-01	.7644-01	.7071-01	.9363	.2189-02	.2477-02	1.560	11.33	588.2
75	.00000	.70000	1032.0	.6572-01	.8024-01	.7428-01	.9363	.2302-02	.2602-02	1.655	12.48	581.8
75	.00000	.75000	1033.0	.6463-01	.7891-01	.7305-01	.9363	.2264-02	.2559-02	1.628	11.86	581.7
75	.00000	.80000	1034.0	.7538-01	.9204-01	.8521-01	.9363	.2641-02	.2985-02	1.898	13.83	582.0
75	.00000	.85000	1035.0	.7882-01	.9625-01	.9010-01	.9309	.2761-02	.3156-02	1.984	14.96	582.1
75	10.000	.10000+00	45.000	.1512	.1840	.1840	.9000	.5297-02	.6447-02	3.660	23.56	571.9
75	14.000	.50000-01	44.000	.2072	.2526	.2526	.9000	.7260-02	.8849-02	5.259	36.03	576.3
75	20.000	.10000+00	207.00	.2051	.2504	.2504	.9000	.7187-02	.8773-02	5.169	29.74	581.4
75	20.000	.15000	211.00	.1327	.1614	.1614	.9000	.4647-02	.5655-02	3.392	21.30	570.9
75	22.000	.50000-01	202.00	.2488	.3031	.3031	.9000	.8715-02	.1062-01	6.326	34.69	574.8
75	24.000	.20000	48.000	.9666-01	.1178	.1178	.9000	.3386-02	.4128-02	2.452	21.50	576.6
75	24.500	.10000+00	208.00	.2063	.2519	.2519	.9000	.7227-02	.8826-02	5.189	32.39	582.7
75	25.500	.15000	212.00	.1271	.1549	.1549	.9000	.4453-02	.5427-02	3.225	28.28	576.3
75	31.500	.20000	215.00	.9900-01	.1209	.1209	.9000	.3468-02	.4236-02	2.488	24.71	583.1
75	35.000	.50000-01	203.00	.1698	.2062	.2062	.9000	.5948-02	.7224-02	4.379	27.59	564.5
75	35.000	.20000	216.00	.1032	.1260	.1260	.9000	.3615-02	.4415-02	2.596	25.79	582.5
75	39.000	.10000+00	209.00	.9228-01	.1118	.1118	.9000	.3233-02	.3916-02	2.410	15.26	555.1
75	40.000	.15000	213.00	.1638	.2003	.2003	.9000	.5737-02	.7017-02	4.092	29.74	587.4
75	40.000	.20000	217.00	.9091-01	.1112	.1112	.9000	.3185-02	.3894-02	2.274	24.80	586.5
75	42.500	.50000-01	204.00	.7625-01	.9220-01	.9220-01	.9000	.2671-02	.3230-02	2.008	13.52	549.0
75	45.500	.15000	214.00	.8315-01	.1007	.1007	.9000	.2913-02	.3527-02	2.176	12.69	553.7
75	51.000	.20000	218.00	.4425-01	.5352-01	.5352-01	.9000	.1550-02	.1875-02	1.164	7.387	549.8
75	60.000	.50000-01	205.00	.2121-01	.2557-01	.2557-01	.9000	.7431-03	.8958-03	.5671	3.841	537.5
75	67.500	.20000	219.00	.2364-01	.2857-01	.2857-01	.9000	.8281-03	.1001-02	.6243	4.630	546.7
75	96.500	.20000	1220.0	.2070-01	.2501-01	.2501-01	.9000	.7253-03	.8762-03	.5476	3.933	545.6
74	114.00	.40000	388.00	.1895-01	.2289-01	.2289-01	.9000	.6652-03	.8033-03	.5032	3.616	544.2
74	114.00	.50000	390.00	.1947-01	.2351-01	.2351-01	.9000	.6334-03	.8250-03	.5180	3.208	542.6
74	114.00	.70000	394.00	.3756-02	.4527-02	.4527-02	.9000	.1318-03	.1589-03	.1007	.6623	536.8
74	157.50	.40000	223.00	.6922-02	.8343-02	.8343-02	.9000	.2429-03	.2928-03	.1854	1.219	537.4
74	157.50	.50000	225.00	.5962-02	.7186-02	.7186-02	.9000	.2093-03	.2522-03	.1598	1.051	537.1
74	157.50	.70000	229.00	.7084-02	.8532-02	.8532-02	.9000	.2486-03	.2994-03	.1906	1.423	534.1
74	157.50	.80000	231.00	.7612-02	.9163-02	.9163-02	.9000	.2672-03	.3216-03	.2053	1.438	532.1
74	180.00	.40000	182.00	.3869-02	.4665-02	.4665-02	.9000	.1358-03	.1637-03	.1036	.8900	538.1
74	180.00	.50000	184.00	.5240-02	.6316-02	.6316-02	.9000	.1839-03	.2217-03	.1404	1.255	537.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 144

OH84B 60-0 FUSELAGE

(R4UA22)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
74	180.00	.60000	186.00	.4796-02	.5779-02	.5779-02	.9000	.1683-03	.2028-03	.1287	1.151	536.2
74	180.00	.70000	188.00	.3642-02	.4387-02	.4387-02	.9000	.1278-03	.1540-03	.9790-01	.8765	534.7
74	180.00	.80000	190.00	.2905-02	.3497-02	.3497-02	.9000	.1020-03	.1227-03	.7836-01	.7636	532.2
74	315.00	.40000	234.00	.1619-02	.1951-02	.1951-02	.9000	.5683-04	.6848-04	.4344-01	.3239	536.2
74	315.00	.50000	236.00	.1890-02	.2277-02	.2277-02	.9000	.6634-04	.7993-04	.5075-01	.3154	535.6
74	315.00	.70000	240.00	.3133-02	.3774-02	.3774-02	.9000	.1100-03	.1324-03	.8433-01	.6294	533.9
74	315.00	.80000	242.00	.2442-02	.2939-02	.2939-02	.9000	.8571-04	.1031-03	.6594-01	.4620	531.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 145

OH84B 60-0 FUSELAGE

(R4UA22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
83	3.029	7.990	40.06	-11434-06	670.3	1315.	95.49	.6922-01	3.093	3827.	.1957-02	.7684-07
84	3.017	7.990	40.07	.2139-02	669.8	1318.	95.71	.6917-01	3.091	3832.	.1951-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
83	.4345-01	.2332-01
84	.4345-01	.2336-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
83	.00000	.00000	1.0000	.4670	.5769	.5109	.9549	.2029-01	.2220-01	14.01	74.96	624.4
83	.00000	.50000-02	2.0000	.5112	.6416	.5251	.9870	.2221-01	.2282-01	14.36	94.09	668.1
83	.00000	.10000-01	3.0000	.4763	.5949	.4890	.9870	.2070-01	.2125-01	13.66	87.33	654.8
83	.00000	.20000-01	4.0000	.3584	.4397	.3734	.9783	.1558-01	.1623-01	11.08	59.94	603.1
84	.00000	.30000-01	5.0000	.2729	.3337	.2885	.9696	.1186-01	.1255-01	8.584	46.64	593.9
84	.00000	.40000-01	6.0000	.2513	.3069	.2690	.9636	.1092-01	.1169-01	7.948	43.26	589.9
84	.00000	.50000-01	7.0000	.2153	.2634	.2327	.9591	.9355-02	.1011-01	6.743	44.34	596.9
84	.00000	.60000-01	8.0000	.2224	.2721	.2419	.9557	.9662-02	.1051-01	6.967	43.20	596.6
84	.00000	.70000-01	9.0000	.1908	.2334	.2090	.9523	.8293-02	.9083-02	5.987	40.62	595.7
84	.00000	.80000-01	10.000	.1553	.1896	.1708	.9496	.6747-02	.7423-02	4.912	33.43	589.6
84	.00000	.90000-01	11.000	.1514	.1845	.1671	.9478	.6578-02	.7259-02	4.825	30.10	584.2
84	.00000	.10000+00	12.000	.1411	.1718	.1562	.9459	.6130-02	.6788-02	4.512	26.66	581.7
84	.00000	.12000	13.000	.1219	.1483	.1356	.9434	.5299-02	.5891-02	3.933	21.56	575.4
84	.00000	.13000	14.000	.1218	.1481	.1357	.9425	.5292-02	.5895-02	3.920	22.61	576.9
84	.00000	.14000	15.000	.1192	.1451	.1330	.9419	.5181-02	.5780-02	3.829	23.95	578.7
84	.00000	.15000	16.000	.1217	.1483	.1360	.9415	.5290-02	.5909-02	3.895	23.65	581.5
84	.00000	.16000	17.000	.1204	.1467	.1347	.9408	.5232-02	.5852-02	3.853	23.41	581.2
84	.00000	.17000	18.000	.1178	.1435	.1319	.9402	.5118-02	.5733-02	3.758	23.46	583.3
84	.00000	.18000	19.000	.1146	.1396	.1284	.9398	.4978-02	.5580-02	3.661	22.86	582.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 146

OH84B 60-0 FUSELAGE

(R4UA22)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
84	.00000	.20000	21.000	.1123	.1367	.1261	.9385	.4878-02	.5481-02	3.594	22.46	580.9
84	.00000	.25000	23.000	.1013	.1235	.1143	.9363	.4400-02	.4969-02	3.225	20.12	584.7
84	.00000	.30000	24.000	.9560-01	.1166	.1080	.9363	.4154-02	.4691-02	3.042	18.97	585.4
84	.00000	.35000	25.000	.9720-01	.1186	.1098	.9363	.4224-02	.4772-02	3.083	19.20	587.8
84	.00000	.40000	26.000	.9576-01	.1170	.1083	.9363	.4161-02	.4706-02	3.015	19.28	593.0
84	.00000	.45000	1027.0	.8164-01	.9983-01	.9235-01	.9363	.3547-02	.4013-02	2.564	16.89	594.8
84	.00000	.50000	1028.0	.7579-01	.9270-01	.8575-01	.9363	.3294-02	.3726-02	2.379	16.15	595.2
84	.00000	.55000	1029.0	.5748-01	.7059-01	.6519-01	.9363	.2498-02	.2833-02	1.773	12.76	607.8
84	.00000	.60000	1030.0	.7476-01	.9172-01	.8473-01	.9363	.3248-02	.3682-02	2.314	16.67	605.3
84	.00000	.65000	1031.0	.7365-01	.9049-01	.8354-01	.9363	.3200-02	.3630-02	2.266	16.29	609.6
84	.00000	.70000	1032.0	.9302-01	.1143	.1055	.9363	.4042-02	.4585-02	2.864	21.30	609.2
84	.00000	.75000	1033.0	.1140	.1403	.1294	.9363	.4953-02	.5625-02	3.478	24.93	615.4
84	.00000	.80000	1034.0	.1510	.1864	.1718	.9363	.6563-02	.7465-02	4.554	32.51	623.8
84	.00000	.85000	1035.0	.1696	.2094	.1952	.9309	.7368-02	.8484-02	5.101	37.64	625.4
84	10.000	.10000+00	45.000	.1519	.1851	.1851	.9000	.6601-02	.8043-02	4.853	29.46	582.5
84	14.000	.50000-01	44.000	.2071	.2528	.2528	.9000	.9001-02	.1098-01	6.570	44.75	587.8
84	20.000	.10000+00	207.00	.2021	.2469	.2469	.9000	.8784-02	.1073-01	6.383	36.55	591.0
84	20.000	.15000	211.00	.1332	.1622	.1622	.9000	.5788-02	.7048-02	4.268	26.68	580.4
84	22.000	.50000-01	202.00	.2487	.3034	.3034	.9000	.1081-01	.1318-01	7.909	43.13	586.0
84	24.000	.20000	48.000	.9610-01	.1173	.1173	.9000	.4176-02	.5095-02	3.050	26.60	587.4
84	24.500	.10000+00	208.00	.2036	.2488	.2488	.9000	.8848-02	.1081-01	6.418	39.88	592.4
84	25.500	.15000	212.00	.1375	.1682	.1682	.9000	.5974-02	.7307-02	4.316	37.49	595.3
84	31.500	.20000	215.00	.9838-01	.1203	.1203	.9000	.4275-02	.5229-02	3.088	30.48	595.3
84	35.000	.50000-01	203.00	.1688	.2050	.2050	.9000	.7336-02	.8903-02	5.478	34.40	571.0
84	35.000	.20000	216.00	.1025	.1253	.1253	.9000	.4453-02	.5445-02	3.221	31.81	594.4
84	39.000	.10000+00	209.00	.9099-01	.1101	.1101	.9000	.3954-02	.4785-02	2.998	18.93	559.5
84	40.000	.15000	213.00	.1651	.2021	.2021	.9000	.7176-02	.8784-02	5.166	37.35	597.8
84	40.000	.20000	217.00	.9467-01	.1159	.1159	.9000	.4114-02	.5037-02	2.957	32.06	598.8
84	42.500	.50000-01	204.00	.7504-01	.9067-01	.9067-01	.9000	.3261-02	.3940-02	2.491	16.74	553.6
84	45.500	.15000	214.00	.8210-01	.9930-01	.9930-01	.9000	.3568-02	.4315-02	2.714	15.81	557.0
84	51.000	.20000	218.00	.4266-01	.5153-01	.5153-01	.9000	.1854-02	.2239-02	1.420	9.004	551.7
84	60.000	.50000-01	205.00	.2012-01	.2422-01	.2422-01	.9000	.8741-03	.1052-02	.6801	4.602	539.6
84	67.500	.20000	219.00	.2410-01	.2909-01	.2909-01	.9000	.1047-02	.1264-02	.8044	5.957	549.6
84	96.500	.20000	1220.0	.2093-01	.2525-01	.2525-01	.9000	.9093-03	.1097-02	.7002	5.023	547.7
83	114.00	.40000	388.00	.1788-01	.2157-01	.2157-01	.9000	.7769-03	.9372-03	.5971	4.267	546.0
83	114.00	.50000	390.00	.2634-01	.3178-01	.3178-01	.9000	.1144-02	.1381-02	.8792	5.434	546.5
83	114.00	.70000	394.00	.4890-02	.5887-02	.5887-02	.9000	.2125-03	.2558-03	.1649	1.084	538.5
83	157.50	.40000	223.00	.5637-02	.6784-02	.6784-02	.9000	.2449-03	.2948-03	.1904	1.252	537.4
83	157.50	.50000	225.00	.1350-01	.1626-01	.1626-01	.9000	.5867-03	.7066-03	.4543	2.983	540.3
83	157.50	.70000	229.00	.6428-02	.7732-02	.7732-02	.9000	.2793-03	.3360-03	.2178	1.624	535.1
83	157.50	.80000	231.00	.4854-02	.5836-02	.5836-02	.9000	.2109-03	.2536-03	.1649	1.154	533.0
83	180.00	.40000	182.00	.4969-02	.5982-02	.5982-02	.9000	.2159-03	.2599-03	.1676	1.440	538.4
83	180.00	.50000	184.00	.7155-02	.8614-02	.8614-02	.9000	.3109-03	.3743-03	.2413	2.157	538.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA22)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
83	180.00	.60000	186.00	.5464-02	.6577-02	.6577-02	.9000	.2374-03	.2858-03	.1845	1.650	537.6
83	180.00	.70000	188.00	.4316-02	.5192-02	.5192-02	.9000	.1876-03	.2256-03	.1461	1.308	535.4
83	180.00	.80000	190.00	.3003-02	.3610-02	.3610-02	.9000	.1305-03	.1569-03	.1019	.9926	533.4
83	315.00	.40000	234.00	.1474-02	.1774-02	.1774-02	.9000	.6406-04	.7708-04	.4986-01	.3717	536.4
83	315.00	.50000	236.00	.1863-02	.2241-02	.2241-02	.9000	.8095-04	.9740-04	.6303-01	.3917	536.0
83	315.00	.70000	240.00	.4666-02	.5613-02	.5613-02	.9000	.2027-03	.2439-03	.1580	1.178	535.4
83	315.00	.80000	242.00	.2559-02	.3077-02	.3077-02	.9000	.1112-03	.1337-03	.8690-01	.6083	533.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
146	3.671	8.000	40.07	-.1071-02	851.7	1354.	98.09	.8724-01	3.908	3884.	.2400-02	.7893-07
147	3.672	8.000	40.10	-.2161-02	850.8	1353.	98.02	.8715-01	3.904	3893.	.2400-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
146	.4909-01	.2112-01
147	.4906-01	.2112-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
146	.00000	.00000	1.0000	.4691	.5777	.5126	.9549	.2303-01	.2516-01	16.57	88.30	633.9
146	.00000	.50000-02	2.0000	.5185	.6495	.5325	.9870	.2546-01	.2614-01	17.09	111.2	682.4
146	.00000	.10000-01	3.0000	.4812	.5995	.4939	.9870	.2362-01	.2425-01	16.21	103.0	667.7
146	.00000	.20000-01	4.0000	.3594	.4403	.3743	.9783	.1764-01	.1837-01	13.00	69.82	616.9
147	.00000	.30000-01	5.0000	.2764	.3375	.2925	.9697	.1356-01	.1435-01	10.13	54.69	605.8
147	.00000	.40000-01	6.0000	.2531	.3085	.2707	.9637	.1242-01	.1328-01	9.347	50.63	599.8
147	.00000	.50000-01	7.0000	.2168	.2650	.2342	.9591	.1064-01	.1149-01	7.902	51.63	609.7
147	.00000	.60000-01	8.0000	.2253	.2754	.2450	.9558	.1105-01	.1202-01	8.212	50.59	609.7
147	.00000	.70000-01	9.0000	.1931	.2360	.2114	.9524	.9474-02	.1037-01	7.050	47.53	608.5
147	.00000	.80000-01	10.000	.1586	.1934	.1744	.9497	.7779-02	.8554-02	5.845	39.55	601.3
147	.00000	.90000-01	11.000	.1497	.1821	.1650	.9478	.7344-02	.8096-02	5.583	34.69	592.5
147	.00000	.10000+00	12.000	.1414	.1720	.1564	.9460	.6936-02	.7673-02	5.276	31.02	592.0
147	.00000	.12000	13.000	.1233	.1497	.1369	.9435	.6049-02	.6718-02	4.645	25.35	534.8
147	.00000	.13000	14.000	.1224	.1487	.1363	.9426	.6007-02	.6685-02	4.600	26.40	586.9
147	.00000	.14000	15.000	.1202	.1461	.1340	.9420	.5895-02	.6573-02	4.483	27.86	592.2
147	.00000	.15000	16.000	.1236	.1504	.1380	.9415	.6065-02	.6769-02	4.611	27.85	592.4
147	.00000	.16000	17.000	.1211	.1473	.1353	.9409	.5939-02	.6637-02	4.516	27.28	592.3
147	.00000	.17000	18.000	.1193	.1452	.1335	.9403	.5852-02	.6551-02	4.435	27.52	594.8
147	.00000	.18000	19.000	.1167	.1421	.1307	.9398	.5726-02	.6414-02	4.343	26.96	594.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA22)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
147	.00000	.20000	21.000	.1130	.1374	.1268	.9386	.5542-02	.6222-02	4.213	26.18	592.4
147	.00000	.25000	23.000	.1020	.1242	.1151	.9364	.5002-02	.5545-02	3.778	23.42	597.4
147	.00000	.30000	24.000	.9608-01	.1171	.1085	.9364	.4714-02	.5321-02	3.554	22.02	598.6
147	.00000	.35000	25.000	.9834-01	.1200	.1111	.9364	.4824-02	.5449-02	3.622	22.40	602.0
147	.00000	.40000	26.000	.9751-01	.1192	.1102	.9364	.4784-02	.5409-02	3.563	22.61	608.0
147	.00000	.45000	1027.0	.8182-01	.1001	.9255-01	.9364	.4014-02	.4540-02	2.978	19.45	610.8
147	.00000	.50000	1028.0	.7000-01	.8507-01	.7889-01	.9364	.3434-02	.3870-02	2.623	17.86	588.8
147	.00000	.55000	1029.0	.8005-01	.9829-01	.9076-01	.9364	.3927-02	.4453-02	2.863	20.44	623.7
147	.00000	.60000	1030.0	.8281-01	.1018	.9393-01	.9364	.4063-02	.4608-02	2.950	21.03	626.5
147	.00000	.65000	1031.0	.9163-01	.1129	.1041	.9364	.4495-02	.5107-02	3.228	22.92	634.6
147	.00000	.70000	1032.0	.1294	.1598	.1472	.9364	.6349-02	.7222-02	4.517	33.08	641.2
147	.00000	.75000	1033.0	.1667	.2067	.1901	.9364	.8178-02	.9327-02	5.711	40.17	654.4
147	.00000	.80000	1034.0	.2113	.2631	.2416	.9364	.1037-01	.1185-01	7.131	49.90	665.0
147	.00000	.85000	1035.0	.2254	.2809	.2610	.9310	.1106-01	.1280-01	7.576	54.78	667.6
147	10.000	.10000+00	45.000	.1502	.1826	.1826	.9000	.7369-02	.8959-02	5.617	33.97	590.4
147	14.000	.50000-01	44.000	.2089	.2548	.2548	.9000	.1025-01	.1250-01	7.686	51.97	602.6
147	20.000	.10000+00	207.00	.2025	.2471	.2471	.9000	.9935-02	.1212-01	7.449	42.41	602.9
147	20.000	.15000	211.00	.1325	.1611	.1611	.9000	.6501-02	.7905-02	4.953	30.80	590.8
147	22.000	.50000-01	202.00	.2470	.3008	.3008	.9000	.1212-01	.1476-01	9.169	49.76	596.1
147	24.000	.20000	48.000	.9598-01	.1170	.1170	.9000	.4709-02	.5740-02	3.545	30.72	599.8
147	24.500	.10000+00	208.00	.2035	.2484	.2484	.9000	.9986-02	.1219-01	7.474	46.17	604.2
147	25.500	.15000	212.00	.1334	.1628	.1628	.9000	.6545-02	.7988-02	4.901	42.39	603.9
147	31.500	.20000	215.00	.9736-01	.1189	.1189	.9000	.4776-02	.5834-02	3.565	35.00	606.3
147	35.000	.50000-01	203.00	.1667	.2021	.2021	.9000	.8177-02	.9915-02	6.309	39.42	581.1
147	35.000	.20000	216.00	.1010	.1233	.1233	.9000	.4955-02	.6048-02	3.706	36.41	604.7
147	39.000	.10000+00	209.00	.8943-01	.1079	.1079	.9000	.4387-02	.5296-02	3.460	21.80	564.0
147	40.000	.15000	213.00	.1624	.1986	.1986	.9000	.7968-02	.9742-02	5.920	42.55	609.7
147	40.000	.20000	217.00	.9651-01	.1180	.1180	.9000	.4735-02	.5789-02	3.518	37.93	609.6
147	42.500	.50000-01	204.00	.7328-01	.8828-01	.8828-01	.9000	.3595-02	.4331-02	2.862	19.20	556.7
147	45.500	.15000	214.00	.8155-01	.9836-01	.9836-01	.9000	.4001-02	.4826-02	3.165	18.39	561.5
147	51.000	.20000	218.00	.4233-01	.5097-01	.5097-01	.9000	.2077-02	.2501-02	1.657	10.49	555.0
147	60.000	.50000-01	205.00	.1995-01	.2393-01	.2393-01	.9000	.9788-03	.1174-02	.7954	5.381	540.0
147	67.500	.20000	219.00	.2326-01	.2800-01	.2800-01	.9000	.1141-02	.1374-02	.9124	6.745	553.2
147	96.500	.20000	1220.0	.2108-01	.2536-01	.2536-01	.9000	.1034-02	.1244-02	.8287	5.934	551.3
146	114.00	.40000	388.00	.1820-01	.2189-01	.2189-01	.9000	.8935-03	.1075-02	.7169	5.134	551.3
146	114.00	.50000	390.00	.3336-01	.4015-01	.4015-01	.9000	.1637-02	.1971-02	1.309	8.061	554.2
146	114.00	.70000	394.00	.4276-02	.5133-02	.5133-02	.9000	.2099-03	.2520-03	.1701	1.115	543.1
146	157.50	.40000	223.00	.5171-02	.6206-02	.6206-02	.9000	.2539-03	.3047-03	.2061	1.352	541.7
146	157.50	.50000	225.00	.1642-01	.1971-01	.1971-01	.9000	.8060-03	.9677-03	.6528	4.278	543.7
146	157.50	.70000	229.00	.6469-02	.7760-02	.7760-02	.9000	.3176-03	.3810-03	.2583	1.922	540.2
146	157.50	.80000	231.00	.4961-02	.5948-02	.5948-02	.9000	.2436-03	.2920-03	.1988	1.389	537.5
146	180.00	.40000	182.00	.5147-02	.6179-02	.6179-02	.9000	.2527-03	.3034-03	.2048	1.755	543.3
146	180.00	.50000	184.00	.8382-02	.1007-01	.1007-01	.9000	.4115-03	.4941-03	.3331	2.968	544.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA22)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
146	180.00	.60000	186.00	.6535-02	.7844-02	.7844-02	.9000	.3208-03	.3851-03	.2603	2.321	542.5
146	180.00	.70000	188.00	.4986-02	.5983-02	.5983-02	.9000	.2448-03	.2937-03	.1988	1.774	541.5
146	180.00	.80000	190.00	.3740-02	.4485-02	.4485-02	.9000	.1836-03	.2202-03	.1496	1.453	538.8
146	315.00	.40000	234.00	.1620-02	.1944-02	.1944-02	.9000	.7952-04	.9542-04	.6463-01	.4807	541.0
146	315.00	.50000	236.00	.2101-02	.2520-02	.2520-02	.9000	.1031-03	.1237-03	.8383-01	.5196	540.8
146	315.00	.70000	240.00	.4400-02	.5278-02	.5278-02	.9000	.2160-03	.2591-03	.1758	1.308	540.0
146	315.00	.80000	242.00	.2577-02	.3090-02	.3090-02	.9000	.1265-03	.1517-03	.1033	.7214	537.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA24)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
87	3.025	7.990	40.26	.9099-02	670.1	1316.	95.56	.6920-01	3.092	3829.	.1955-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
87	.4345-01	.2333-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
87	.00000	.30000-01	5.0000	.2741	.3352	.2900	.9699	.1191-01	.1260-01	8.585	46.62	594.7
87	.00000	.40000-01	6.0000	.2521	.3079	.2697	.9640	.1095-01	.1172-01	7.940	43.20	590.7
87	.00000	.50000-01	7.0000	.2160	.2645	.2333	.9594	.9385-02	.1014-01	6.736	44.27	597.9
87	.00000	.60000-01	8.0000	.2236	.2738	.2432	.9561	.9717-02	.1057-01	6.976	43.23	597.7
87	.00000	.70000-01	9.0000	.1917	.2347	.2099	.9527	.8330-02	.9120-02	5.988	40.60	596.9
87	.00000	.80000-01	10.000	.1564	.1911	.1720	.9500	.6798-02	.7475-02	4.927	33.51	590.8
87	.00000	.90000-01	11.000	.1513	.1845	.1669	.9482	.6573-02	.7250-02	4.800	29.92	585.5
87	.00000	.10000+00	12.000	.1416	.1726	.1567	.9463	.6152-02	.6808-02	4.506	26.61	583.1
87	.00000	.12000	13.000	.1231	.1498	.1368	.9438	.5351-02	.5946-02	3.953	21.65	577.0
87	.00000	.13000	14.000	.1222	.1488	.1361	.9430	.5311-02	.5913-02	3.914	22.55	578.6
87	.00000	.14000	15.000	.1199	.1460	.1337	.9423	.5209-02	.5808-02	3.829	23.93	580.5
87	.00000	.15000	16.000	.1235	.1506	.1379	.9419	.5367-02	.5993-02	3.930	23.85	583.4
87	.00000	.16000	17.000	.1202	.1465	.1343	.9413	.5221-02	.5837-02	3.824	23.21	583.2
87	.00000	.17000	18.000	.1189	.1450	.1331	.9406	.5166-02	.5785-02	3.773	23.53	585.4
87	.00000	.18000	19.000	.1149	.1401	.1288	.9402	.4994-02	.5596-02	3.652	22.79	584.2
87	.00000	.20000	21.000	.1125	.1372	.1264	.9389	.4890-02	.5492-02	3.581	22.35	583.4
87	.00000	.25000	23.000	.1026	.1252	.1158	.9368	.4456-02	.5031-02	3.246	20.22	587.3
87	.00000	.30000	24.000	.9551-01	.1166	.1079	.9368	.4150-02	.4686-02	3.020	18.80	588.1
87	.00000	.35000	25.000	.9705-01	.1186	.1096	.9368	.4217-02	.4764-02	3.058	19.01	590.6
87	.00000	.40000	26.000	.9643-01	.1180	.1090	.9368	.4190-02	.4738-02	3.016	19.26	595.8
87	.00000	.45000	1027.0	.7984-01	.9775-01	.9031-01	.9368	.3469-02	.3924-02	2.491	16.37	597.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA24)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
87	.00000	.50000	1028.0	.7650-01	.9368-01	.8653-01	.9368	.3324-02	.3760-02	2.385	16.16	598.3
87	.00000	.55000	1029.0	.7702-01	.9472-01	.8734-01	.9368	.3347-02	.3795-02	2.356	16.92	611.6
87	.00000	.60000	1030.0	.7470-01	.9174-01	.8464-01	.9368	.3246-02	.3678-02	2.299	16.55	607.3
87	.00000	.65000	1031.0	.7385-01	.9080-01	.8373-01	.9368	.3209-02	.3638-02	2.261	16.24	611.1
87	.00000	.70000	1032.0	.9281-01	.1141	.1052	.9368	.4033-02	.4572-02	2.845	21.14	610.3
87	.00000	.75000	1033.0	.1139	.1403	.1293	.9368	.4948-02	.5617-02	3.458	24.77	616.8
87	.00000	.80000	1034.0	.1513	.1870	.1721	.9368	.6576-02	.7477-02	4.542	32.40	625.1
87	.00000	.85000	1035.0	.1715	.2120	.1974	.9314	.7452-02	.8576-02	5.135	37.86	626.6
87	10.000	.10000+00	45.000	.1519	.1852	.1852	.9000	.6601-02	.8046-02	4.836	29.35	583.1
87	14.000	.50000-01	44.000	.2074	.2533	.2533	.9000	.9013-02	.1101-01	6.549	44.58	589.0
87	20.000	.10000+00	207.00	.2018	.2467	.2467	.9000	.8769-02	.1072-01	6.340	36.28	592.6
87	20.000	.15000	211.00	.1330	.1620	.1620	.9000	.5778-02	.7041-02	4.237	26.45	582.4
87	22.000	.50000-01	202.00	.2487	.3034	.3034	.9000	.1080-01	.1319-01	7.873	42.92	587.0
87	24.000	.20000	48.000	.9622-01	.1175	.1175	.9000	.4181-02	.5107-02	3.034	26.42	590.0
87	24.500	.10000+00	208.00	.2044	.2499	.2499	.9000	.8880-02	.1086-01	6.411	39.81	593.8
87	25.500	.15000	212.00	.1380	.1688	.1688	.9000	.5995-02	.7336-02	4.316	37.48	595.7
87	31.500	.20000	215.00	.9851-01	.1206	.1206	.9000	.4280-02	.5241-02	3.072	30.29	597.9
87	35.000	.50000-01	203.00	.1680	.2041	.2041	.9000	.7301-02	.8870-02	5.430	34.09	571.9
87	35.000	.20000	216.00	.1027	.1257	.1257	.9000	.4462-02	.5461-02	3.207	31.64	596.8
87	39.000	.10000+00	209.00	.9041-01	.1095	.1095	.9000	.3929-02	.4758-02	2.966	18.73	560.6
87	40.000	.15000	213.00	.1645	.2015	.2015	.9000	.7148-02	.8757-02	5.119	36.98	599.5
87	40.000	.20000	217.00	.9864-01	.1209	.1209	.9000	.4286-02	.5255-02	3.060	33.12	601.7
87	42.500	.50000-01	204.00	.7419-01	.8969-01	.8969-01	.9000	.3224-02	.3897-02	2.454	16.48	554.5
87	45.500	.15000	214.00	.8202-01	.9927-01	.9927-01	.9000	.3564-02	.4313-02	2.698	15.70	558.6
87	51.000	.20000	218.00	.4276-01	.5168-01	.5168-01	.9000	.1858-02	.2246-02	1.416	8.971	553.5
87	60.000	.50000-01	205.00	.2006-01	.2416-01	.2416-01	.9000	.8716-03	.1050-02	.6755	4.568	540.7
87	67.500	.20000	219.00	.2346-01	.2834-01	.2834-01	.9000	.1019-02	.1231-02	.7791	5.765	551.4
87	96.500	.20000	1220.0	.2101-01	.2537-01	.2537-01	.9000	.9129-03	.1102-02	.6994	5.013	549.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA25)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
21	X10 6 .5073	7.900	40.03	1.042	101.1	1252.	92.84	.1124-01	.4910	3732.	.3268-03	.7471-07
22	.5090	7.900	40.03	1.039	101.5	1252.	92.84	.1128-01	.4927	3732.	.3279-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
21	.1717-01	.5677-01
22	.1719-01	.5668-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
21	.00000	.00000	1.0000	.4787	.5860	.5218	.9549	.8217-02	.8956-02	5.617	30.91	568.1
21	.00000	.50000-02	2.0000	.5217	.6416	.5347	.9870	.8955-02	.9178-02	5.995	40.95	582.2
21	.00000	.10000-01	3.0000	.4845	.5947	.4965	.9870	.8318-02	.8523-02	5.620	37.34	576.0
21	.00000	.20000-01	4.0000	.3622	.4418	.3770	.9783	.6218-02	.6471-02	4.322	23.92	556.5
22	.00000	.30000-01	5.0000	.2777	.3389	.2939	.9695	.4775-02	.5053-02	3.311	18.31	558.3
22	.00000	.40000-01	6.0000	.2607	.3180	.2790	.9636	.4483-02	.4798-02	3.115	17.24	556.2
22	.00000	.50000-01	7.0000	.2222	.2712	.2400	.9590	.3820-02	.4126-02	2.646	17.72	559.1
22	.00000	.60000-01	8.0000	.2298	.2804	.2498	.9556	.3951-02	.4295-02	2.737	17.29	558.9
22	.00000	.70000-01	9.0000	.1978	.2413	.2164	.9522	.3400-02	.3721-02	2.359	16.30	558.1
22	.00000	.80000-01	10.000	.1643	.2004	.1807	.9496	.2825-02	.3107-02	1.963	13.58	556.8
22	.00000	.90000-01	11.000	.1564	.1906	.1726	.9477	.2690-02	.2968-02	1.878	11.90	553.4
22	.00000	.10000+00	12.000	.1437	.1751	.1592	.9458	.2471-02	.2737-02	1.729	10.37	552.2
22	.00000	.12000	13.000	.1297	.1578	.1443	.9433	.2230-02	.2481-02	1.566	8.701	549.4
22	.00000	.13000	14.000	.1279	.1557	.1426	.9425	.2200-02	.2451-02	1.545	9.031	549.5
22	.00000	.14000	15.000	.1218	.1483	.1359	.9418	.2095-02	.2337-02	1.471	9.336	549.6
22	.00000	.15000	16.000	.1247	.1518	.1393	.9414	.2145-02	.2395-02	1.503	9.271	550.8
22	.00000	.16000	17.000	.1230	.1498	.1376	.9408	.2115-02	.2365-02	1.484	9.155	550.2
22	.00000	.17000	18.000	.1228	.1495	.1375	.9401	.2111-02	.2364-02	1.479	9.380	551.0
22	.00000	.18000	19.000	.1196	.1456	.1340	.9397	.2057-02	.2305-02	1.443	9.155	550.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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(R4UA25)

OH84B 60-0 FUSELAGE

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
22	.00000	.20000	21.000	.1160	.1412	.1303	.9384	.1995-02	.2241-02	1.403	8.907	548.7
22	.00000	.25000	23.000	.1067	.1298	.1204	.9363	.1834-02	.2069-02	1.286	8.163	550.3
22	.00000	.30000	24.000	.1016	.1238	.1147	.9363	.1748-02	.1972-02	1.224	7.765	551.1
22	.00000	.35000	25.000	.1027	.1251	.1159	.9363	.1766-02	.1993-02	1.238	7.849	551.1
22	.00000	.40000	26.000	.9906-01	.1206	.1118	.9363	.1703-02	.1922-02	1.192	7.779	551.9
22	.00000	.45000	1027.0	.8753-01	.1066	.9881-01	.9363	.1505-02	.1699-02	1.052	7.071	552.7
22	.00000	.50000	1028.0	.7852-01	.9559-01	.8861-01	.9363	.1350-02	.1524-02	.9463	6.566	550.8
22	.00000	.55000	1029.0	.8019-01	.9771-01	.9054-01	.9363	.1379-02	.1557-02	.9620	7.108	553.9
22	.00000	.60000	1030.0	.7371-01	.8979-01	.8321-01	.9363	.1267-02	.1431-02	.8856	6.547	552.9
22	.00000	.65000	1031.0	.6644-01	.8095-01	.7501-01	.9363	.1142-02	.1290-02	.7979	5.898	553.3
22	.00000	.70000	1032.0	.6587-01	.8027-01	.7438-01	.9363	.1133-02	.1279-02	.7906	6.044	553.7
22	.00000	.75000	1033.0	.6192-01	.7543-01	.6990-01	.9363	.1065-02	.1202-02	.7438	5.499	553.0
22	.00000	.80000	1034.0	.6519-01	.7938-01	.7358-01	.9363	.1121-02	.1265-02	.7846	5.804	551.7
22	.00000	.85000	1035.0	.6046-01	.7360-01	.6897-01	.9309	.1040-02	.1186-02	.7288	5.581	550.6
22	10.000	.10000+00	45.000	.1529	.1862	.1862	.9000	.2629-02	.3201-02	1.841	11.35	551.4
22	14.000	.50000-01	44.000	.2092	.2549	.2549	.9000	.3598-02	.4383-02	2.513	17.41	553.2
22	20.000	.10000+00	207.00	.2026	.2470	.2470	.9000	.3484-02	.4247-02	2.427	14.15	555.1
22	20.000	.15000	211.00	.1342	.1634	.1634	.9000	.2308-02	.2809-02	1.620	10.28	549.6
22	22.000	.50000-01	202.00	.2471	.3010	.3010	.9000	.4249-02	.5175-02	2.971	16.47	552.5
22	24.000	.20000	48.000	.9875-01	.1202	.1202	.9000	.1698-02	.2067-02	1.191	10.58	550.3
22	24.500	.10000+00	208.00	.2027	.2471	.2471	.9000	.3485-02	.4249-02	2.428	15.37	555.2
22	25.500	.15000	212.00	.1413	.1722	.1722	.9000	.2429-02	.2961-02	1.694	15.02	554.4
22	31.500	.20000	215.00	.9906-01	.1207	.1207	.9000	.1703-02	.2075-02	1.190	11.99	553.0
22	35.000	.50000-01	203.00	.1633	.1986	.1986	.9000	.2807-02	.3414-02	1.977	12.56	547.4
22	35.000	.20000	216.00	.1030	.1254	.1254	.9000	.1770-02	.2157-02	1.238	12.48	552.6
22	39.000	.10000+00	209.00	.8823-01	.1071	.1071	.9000	.1517-02	.1842-02	1.075	6.849	542.8
22	40.000	.15000	213.00	.1579	.1925	.1925	.9000	.2714-02	.3310-02	1.888	13.94	555.9
22	40.000	.20000	217.00	.9256-01	.1128	.1128	.9000	.1591-02	.1939-02	1.110	12.30	554.2
22	42.500	.50000-01	204.00	.7253-01	.8802-01	.8802-01	.9000	.1247-02	.1513-02	.8873	6.001	540.3
22	45.500	.15000	214.00	.7697-01	.9343-01	.9343-01	.9000	.1323-02	.1606-02	.9404	5.522	541.1
22	51.000	.20000	218.00	.4108-01	.4982-01	.4982-01	.9000	.7063-03	.8567-03	.5035	3.213	538.8
22	60.000	.50000-01	205.00	.2237-01	.2710-01	.2710-01	.9000	.3846-03	.4659-03	.2757	1.870	534.7
22	67.500	.20000	219.00	.2235-01	.2710-01	.2710-01	.9000	.3844-03	.4659-03	.2748	2.048	536.8
22	96.500	.20000	1220.0	.1940-01	.2352-01	.2352-01	.9000	.3336-03	.4044-03	.2387	1.723	536.1
21	114.00	.40000	388.00	.1899-01	.2300-01	.2300-01	.9000	.3260-03	.3949-03	.2338	1.689	534.4
21	114.00	.50000	390.00	.1665-01	.2016-01	.2016-01	.9000	.2858-03	.3460-03	.2056	1.280	532.2
21	114.00	.70000	394.00	.6725-03	.8134-03	.8134-03	.9000	.1154-04	.1396-04	.8342-02	.5508-01	529.0
21	157.50	.40000	223.00	.2669-02	.3230-02	.3230-02	.9000	.4582-04	.5545-04	.3304-01	.2180	530.6
21	157.50	.50000	225.00	.2802-02	.3393-02	.3393-02	.9000	.4811-04	.5824-04	.3460-01	.2281	532.4
21	157.50	.70000	229.00	.3381-02	.4088-02	.4088-02	.9000	.5804-04	.7017-04	.4204-01	.3148	527.4
21	157.50	.80000	231.00	.5084-02	.6144-02	.6144-02	.9000	.8727-04	.1055-03	.6329-01	.4445	526.5
21	180.00	.40000	182.00	.2521-02	.3052-02	.3052-02	.9000	.4328-04	.5238-04	.3117-01	.2688	531.4
21	180.00	.50000	184.00	.2398-02	.2901-02	.2901-02	.9000	.4116-04	.4980-04	.2970-01	.2666	530.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA25)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
21	180.00	.60000	186.00	.2641-02	.3193-02	.3193-02	.9000	.4533-04	.5482-04	.3278-01	.2945	528.4
21	180.00	.70000	188.00	.3026-02	.3660-02	.3660-02	.9000	.5195-04	.6282-04	.3756-01	.3374	528.6
21	180.00	.80000	190.00	.4205-02	.5084-02	.5084-02	.9000	.7219-04	.8728-04	.5226-01	.5104	527.7
21	315.00	.40000	234.00	.1784-02	.2159-02	.2159-02	.9000	.3063-04	.3706-04	.2209-01	.1652	530.3
21	315.00	.50000	236.00	.2600-02	.3145-02	.3145-02	.9000	.4463-04	.5398-04	.3224-01	.2010	529.2
21	315.00	.70000	240.00	.7770-03	.9393-03	.9393-03	.9000	.1334-04	.1612-04	.9659-02	.7234-01	527.5
21	315.00	.80000	242.00	.1652-02	.1996-02	.1996-02	.9000	.2835-04	.3427-04	.2057-01	.1445	526.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA25)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
36	1.022	7.940	40.06	1.017	207.1	1254.	92.12	.2228-01	.9832	3736.	.6528-03	.7413-07
37	1.021	7.940	40.06	1.019	207.3	1256.	92.27	.2230-01	.9842	3739.	.6523-03	.7425-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) #.0175
36	.2430-01	.4018-01
37	.2432-01	.4020-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
36	.00000	.00000	1.0000	.4702	.5784	.5136	.9549	.1143-01	.1248-01	7.660	41.83	583.2
36	.00000	.50000-02	2.0000	.5200	.6449	.5334	.9870	.1263-01	.1296-01	8.178	55.19	606.4
36	.00000	.10000-01	3.0000	.4784	.5916	.4906	.9870	.1162-01	.1192-01	7.616	50.04	598.5
36	.00000	.20000-01	4.0000	.3546	.4344	.3693	.9783	.8617-02	.8974-02	5.885	32.34	570.7
37	.00000	.30000-01	5.0000	.2757	.3375	.2919	.9696	.6703-02	.7098-02	4.593	25.24	570.4
37	.00000	.40000-01	6.0000	.2535	.3102	.2716	.9636	.6164-02	.6603-02	4.236	23.30	568.5
37	.00000	.50000-01	7.0000	.2191	.2683	.2369	.9591	.5327-02	.5760-02	3.644	24.26	571.6
37	.00000	.60000-01	8.0000	.2270	.2780	.2471	.9557	.5520-02	.6008-02	3.778	23.72	571.2
37	.00000	.70000-01	9.0000	.1939	.2374	.2125	.9523	.4714-02	.5166-02	3.232	22.21	570.2
37	.00000	.80000-01	10.000	.1598	.1954	.1759	.9496	.3885-02	.4278-02	2.676	18.42	566.9
37	.00000	.90000-01	11.000	.1522	.1859	.1681	.9478	.3701-02	.4088-02	2.566	16.18	562.5
37	.00000	.10000+00	12.000	.1419	.1732	.1573	.9459	.3450-02	.3824-02	2.393	14.28	562.0
37	.00000	.12000	13.000	.1249	.1523	.1391	.9434	.3037-02	.3382-02	2.118	11.71	558.3
37	.00000	.13000	14.000	.1242	.1515	.1386	.9425	.3020-02	.3369-02	2.105	12.25	558.8
37	.00000	.14000	15.000	.1200	.1464	.1340	.9419	.2918-02	.3259-02	2.032	12.84	559.1
37	.00000	.15000	16.000	.1233	.1505	.1379	.9415	.2998-02	.3352-02	2.084	12.79	560.7
37	.00000	.16000	17.000	.1213	.1480	.1358	.9408	.2950-02	.3303-02	2.052	12.60	560.1
37	.00000	.17000	18.000	.1192	.1456	.1337	.9402	.2899-02	.3251-02	2.014	12.71	561.1
37	.00000	.18000	19.000	.1172	.1430	.1315	.9398	.2849-02	.3197-02	1.982	12.51	560.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA25)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
37	.00000	.20000	21.000	.1140	.1390	.1282	.9385	.2771-02	.3116-02	1.932	12.21	558.4
37	.00000	.25000	23.000	.1040	.1270	.1176	.9363	.2530-02	.2858-02	1.760	11.11	560.1
37	.00000	.30000	24.000	.9712-01	.1185	.1097	.9363	.2361-02	.2668-02	1.643	10.38	559.7
37	.00000	.35000	25.000	.9902-01	.1208	.1119	.9363	.2408-02	.2720-02	1.676	10.58	559.7
37	.00000	.40000	26.000	.9493-01	.1159	.1073	.9363	.2308-02	.2609-02	1.603	10.41	561.2
37	.00000	.45000	1027.0	.8571-01	.1047	.9688-01	.9363	.2084-02	.2356-02	1.446	9.672	562.0
37	.00000	.50000	1028.0	.7836-01	.9563-01	.8854-01	.9363	.1905-02	.2153-02	1.324	9.144	560.5
37	.00000	.55000	1029.0	.7678-01	.9381-01	.8682-01	.9363	.1867-02	.2111-02	1.291	9.493	564.0
37	.00000	.60000	1030.0	.7045-01	.8604-01	.7964-01	.9363	.1713-02	.1936-02	1.187	8.730	562.8
37	.00000	.65000	1031.0	.6353-01	.7763-01	.7184-01	.9363	.1545-02	.1747-02	1.068	7.851	564.3
37	.00000	.70000	1032.0	.6328-01	.7732-01	.7155-01	.9363	.1539-02	.1740-02	1.064	8.091	564.2
37	.00000	.75000	1033.0	.5884-01	.7190-01	.6653-01	.9363	.1431-02	.1618-02	.9893	7.273	564.2
37	.00000	.80000	1034.0	.6210-01	.7585-01	.7020-01	.9363	.1510-02	.1707-02	1.046	7.690	563.2
37	.00000	.85000	1035.0	.5843-01	.7134-01	.6678-01	.9309	.1421-02	.1624-02	.9856	7.503	562.0
37	10.000	.10000+00	45.000	.1504	.1836	.1836	.9000	.3656-02	.4463-02	2.539	15.57	561.3
37	14.000	.50000-01	44.000	.2076	.2536	.2536	.9000	.5047-02	.6167-02	3.490	24.05	564.2
37	20.000	.10000+00	207.00	.2001	.2446	.2446	.9000	.4866-02	.5949-02	3.358	19.47	565.6
37	20.000	.15000	211.00	.1328	.1620	.1620	.9000	.3228-02	.3939-02	2.246	14.18	559.8
37	22.000	.50000-01	202.00	.2453	.2996	.2996	.9000	.5965-02	.7286-02	4.133	22.80	562.8
37	24.000	.20000	48.000	.9713-01	.1186	.1186	.9000	.2362-02	.2883-02	1.640	14.49	561.4
37	24.500	.10000+00	208.00	.2008	.2455	.2455	.9000	.4882-02	.5968-02	3.368	21.20	565.8
37	25.500	.15000	212.00	.1370	.1676	.1676	.9000	.3332-02	.4074-02	2.297	20.24	566.2
37	31.500	.20000	215.00	.9708-01	.1186	.1186	.9000	.2361-02	.2884-02	1.633	16.37	564.0
37	35.000	.50000-01	203.00	.1608	.1958	.1958	.9000	.3910-02	.4762-02	2.743	17.37	554.2
37	35.000	.20000	216.00	.1006	.1229	.1229	.9000	.2446-02	.2989-02	1.694	16.99	563.3
37	39.000	.10000+00	209.00	.8583-01	.1044	.1044	.9000	.2087-02	.2537-02	1.476	9.375	548.4
37	40.000	.15000	213.00	.1555	.1902	.1902	.9000	.3781-02	.4625-02	2.602	19.10	567.5
37	40.000	.20000	217.00	.9828-01	.1202	.1202	.9000	.2390-02	.2922-02	1.648	18.15	566.1
37	42.500	.50000-01	204.00	.6944-01	.8432-01	.8432-01	.9000	.1689-02	.2050-02	1.201	8.111	544.1
37	45.500	.15000	214.00	.7642-01	.9291-01	.9291-01	.9000	.1858-02	.2259-02	1.315	7.693	548.0
37	51.000	.20000	218.00	.3920-01	.4759-01	.4759-01	.9000	.9530-03	.1157-02	.6786	4.320	543.6
37	60.000	.50000-01	205.00	.2035-01	.2466-01	.2466-01	.9000	.4948-03	.5995-03	.3556	2.409	537.0
37	67.500	.20000	219.00	.2214-01	.2687-01	.2687-01	.9000	.5384-03	.6533-03	.3844	2.858	541.7
37	96.500	.20000	1220.0	.1886-01	.2287-01	.2287-01	.9000	.4585-03	.5560-03	.3281	2.363	540.0
36	114.00	.40000	388.00	.1952-01	.2365-01	.2365-01	.9000	.4742-03	.5746-03	.3403	2.456	536.0
36	114.00	.50000	390.00	.1947-01	.2357-01	.2357-01	.9000	.4729-03	.5727-03	.3402	2.116	534.2
36	114.00	.70000	394.00	.5900-03	.7137-03	.7137-03	.9000	.1434-04	.1734-04	.1038-01	.6848-01	529.9
36	157.50	.40000	223.00	.4126-02	.4993-02	.4993-02	.9000	.1002-03	.1213-03	.7236-01	.4771	531.8
36	157.50	.50000	225.00	.3344-02	.4049-02	.4049-02	.9000	.8125-04	.9837-04	.5853-01	.3856	533.3
36	157.50	.70000	229.00	.5705-02	.6900-02	.6900-02	.9000	.1386-03	.1676-03	.1004	.7509	529.5
36	157.50	.80000	231.00	.4190-02	.5064-02	.5064-02	.9000	.1018-03	.1230-03	.7389-01	.5187	527.7
36	180.00	.40000	182.00	.2890-02	.3498-02	.3498-02	.9000	.7022-04	.8499-04	.5066-01	.4367	532.3
36	180.00	.50000	184.00	.3676-02	.4448-02	.4448-02	.9000	.8932-04	.1081-03	.6451-01	.5785	531.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA25)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
36	180.00	.60000	186.00	.3882-02	.4696-02	.4696-02	.9000	.9432-04	.1141-03	.6822-01	.6121	530.4
36	180.00	.70000	188.00	.2757-02	.3334-02	.3334-02	.9000	.6698-04	.8101-04	.4848-01	.4352	529.8
36	180.00	.80000	190.00	.1927-02	.2330-02	.2330-02	.9000	.4683-04	.5661-04	.3397-01	.3317	528.2
36	315.00	.40000	234.00	.1610-02	.1947-02	.1947-02	.9000	.3911-04	.4732-04	.2826-01	.2112	531.1
36	315.00	.50000	236.00	.2114-02	.2557-02	.2557-02	.9000	.5136-04	.6213-04	.3715-01	.2315	530.3
36	315.00	.70000	240.00	.8565-03	.1035-02	.1035-02	.9000	.2081-04	.2516-04	.1509-01	.1130	528.4
36	315.00	.80000	242.00	.1721-02	.2080-02	.2080-02	.9000	.4183-04	.5055-04	.3038-01	.2133	527.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA25)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
71	1.998	7.980	40.08	1.028	434.2	1302.	94.76	.4520-01	2.015	3808.	.1287-02	.7626-07
72	2.004	7.980	40.09	1.028	435.4	1302.	94.76	.4533-01	2.021	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
71	.3501-01	.2872-01
72	.3506-01	.2868-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
71	.00000	.00000	1.0000	.4720	.5804	.5155	.9548	.1652-01	.1805-01	11.51	62.17	605.2
71	.00000	.50000-02	2.0000	.5165	.6429	.5300	.9870	.1808-01	.1856-01	11.97	79.51	639.6
71	.00000	.10000-01	3.0000	.4788	.5936	.4911	.9870	.1676-01	.1719-01	11.27	72.98	629.0
71	.00000	.20000-01	4.0000	.3556	.4349	.3702	.9783	.1245-01	.1296-01	8.883	48.40	588.0
72	.00000	.30000-01	5.0000	.2730	.3334	.2889	.9696	.9571-02	.1013-01	6.879	37.57	583.0
72	.00000	.40000-01	6.0000	.2516	.3070	.2693	.9637	.8821-02	.9439-02	6.365	34.81	580.1
72	.00000	.50000-01	7.0000	.2158	.2637	.2331	.9591	.7565-02	.8173-02	5.419	35.83	585.4
72	.00000	.60000-01	8.0000	.2234	.2729	.2429	.9558	.7830-02	.8515-02	5.611	34.99	585.1
72	.00000	.70000-01	9.0000	.1914	.2338	.2095	.9523	.6709-02	.7344-02	4.815	32.85	584.1
72	.00000	.80000-01	10.000	.1594	.1945	.1753	.9497	.5587-02	.6146-02	4.023	27.48	581.7
72	.00000	.90000-01	11.000	.1513	.1851	.1676	.9478	.5326-02	.5875-02	3.868	24.24	575.4
72	.00000	.10000+00	12.000	.1412	.1719	.1563	.9460	.4949-02	.5478-02	3.604	21.38	573.4
72	.00000	.12000	13.000	.1220	.1483	.1356	.9434	.4277-02	.4755-02	3.136	17.25	568.5
72	.00000	.13000	14.000	.1221	.1485	.1360	.9426	.4281-02	.4768-02	3.135	18.14	569.5
72	.00000	.14000	15.000	.1193	.1452	.1331	.9419	.4182-02	.4665-02	3.056	19.19	570.9
72	.00000	.15000	16.000	.1215	.1479	.1357	.9415	.4259-02	.4756-02	3.123	18.92	573.1
72	.00000	.16000	17.000	.1204	.1465	.1346	.9409	.4220-02	.4718-02	3.076	18.77	572.7
72	.00000	.17000	18.000	.1175	.1431	.1316	.9402	.4120-02	.4614-02	2.997	18.79	574.4
72	.00000	.18000	19.000	.1156	.1408	.1295	.9398	.4053-02	.4541-02	2.951	18.51	573.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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(R4UA25)

OH84B 60-0 FUSELAGE

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
72	.00000	.20000	21.000	.1129	.1374	.1268	.9385	.3957-02	.4445-02	2.888	18.12	572.0
72	.00000	.25000	23.000	.1018	.1240	.1149	.9364	.3569-02	.4028-02	2.593	16.25	575.2
72	.00000	.30000	24.000	.9683-01	.1180	.1093	.9364	.3395-02	.3832-02	2.461	15.41	576.7
72	.00000	.35000	25.000	.9870-01	.1204	.1115	.9364	.3460-02	.3907-02	2.504	15.67	578.0
72	.00000	.40000	26.000	.9522-01	.1162	.1076	.9364	.3339-02	.3772-02	2.404	15.46	581.4
72	.00000	.45000	1027.0	.8207-01	.1002	.9276-01	.9364	.2877-02	.3252-02	2.068	13.69	582.9
72	.00000	.50000	1028.0	.7494-01	.9151-01	.8470-01	.9364	.2627-02	.2969-02	1.889	12.90	582.6
72	.00000	.55000	1029.0	.9375-01	.1147	.1061	.9364	.3287-02	.3719-02	2.340	16.98	589.8
72	.00000	.60000	1030.0	.6953-01	.8501-01	.7864-01	.9364	.2437-02	.2757-02	1.742	12.66	586.9
72	.00000	.65000	1031.0	.6387-01	.7811-01	.7225-01	.9364	.2239-02	.2533-02	1.598	11.61	587.8
72	.00000	.70000	1032.0	.6615-01	.8074-01	.7474-01	.9364	.2319-02	.2620-02	1.670	12.59	581.4
72	.00000	.75000	1033.0	.6462-01	.7887-01	.7301-01	.9364	.2265-02	.2560-02	1.632	11.90	581.2
72	.00000	.80000	1034.0	.7564-01	.9233-01	.8547-01	.9364	.2652-02	.2996-02	1.910	13.92	581.5
72	.00000	.85000	1035.0	.7949-01	.9702-01	.9082-01	.9310	.2787-02	.3184-02	2.007	15.13	581.4
72	10.000	.10000+00	45.000	.1506	.1833	.1833	.9000	.5279-02	.6426-02	3.851	23.50	572.2
72	14.000	.50000-01	44.000	.2043	.2490	.2490	.9000	.7163-02	.8728-02	5.200	35.63	575.7
72	20.000	.10000+00	207.00	.2020	.2464	.2464	.9000	.7080-02	.8640-02	5.106	29.39	580.5
72	20.000	.15000	211.00	.1318	.1603	.1603	.9000	.4620-02	.5620-02	3.377	21.21	570.6
72	22.000	.50000-01	202.00	.2439	.2970	.2970	.9000	.8551-02	.1041-01	6.225	34.16	573.7
72	24.000	.20000	48.000	.9614-01	.1171	.1171	.9000	.3371-02	.4107-02	2.448	21.47	575.5
72	24.500	.10000+00	208.00	.2016	.2460	.2460	.9000	.7067-02	.8625-02	5.093	31.82	581.0
72	25.500	.15000	212.00	.1339	.1633	.1633	.9000	.4695-02	.5725-02	3.398	29.77	578.0
72	31.500	.20000	215.00	.9742-01	.1189	.1189	.9000	.3415-02	.4168-02	2.461	24.46	581.1
72	35.000	.50000-01	203.00	.1636	.1986	.1986	.9000	.5735-02	.6962-02	4.235	26.70	563.2
72	35.000	.20000	216.00	.1010	.1233	.1233	.9000	.3542-02	.4321-02	2.556	25.42	580.0
72	39.000	.10000+00	209.00	.8674-01	.1050	.1050	.9000	.3041-02	.3682-02	2.273	14.39	554.1
72	40.000	.15000	213.00	.1595	.1949	.1949	.9000	.5592-02	.6831-02	4.013	29.21	584.1
72	40.000	.20000	217.00	.1021	.1248	.1248	.9000	.3580-02	.4374-02	2.567	28.02	584.6
72	42.500	.50000-01	204.00	.7179-01	.8678-01	.8678-01	.9000	.2516-02	.3042-02	1.895	12.76	548.7
72	45.500	.15000	214.00	.7696-01	.9314-01	.9314-01	.9000	.2698-02	.3265-02	2.021	11.80	552.6
72	51.000	.20000	218.00	.4040-01	.4885-01	.4885-01	.9000	.1416-02	.1713-02	1.066	6.768	549.1
72	60.000	.50000-01	205.00	.1972-01	.2378-01	.2378-01	.9000	.6914-03	.8335-03	.5278	3.573	538.4
72	67.500	.20000	219.00	.2256-01	.2726-01	.2726-01	.9000	.7911-03	.9557-03	.5977	4.434	546.1
72	96.500	.20000	1220.0	.1934-01	.2335-01	.2335-01	.9000	.6779-03	.8188-03	.5129	3.684	545.1
71	114.00	.40000	388.00	.1800-01	.2173-01	.2173-01	.9000	.6302-03	.7608-03	.4778	3.434	543.5
71	114.00	.50000	390.00	.1924-01	.2322-01	.2322-01	.9000	.6736-03	.8129-03	.5116	3.169	542.2
71	114.00	.70000	394.00	.1718-02	.2069-02	.2069-02	.9000	.6013-04	.7244-04	.4607-01	.3032	535.5
71	157.50	.40000	223.00	.7133-02	.8598-02	.8598-02	.9000	.2497-03	.3010-03	.1909	1.255	537.4
71	157.50	.50000	225.00	.6653-02	.8016-02	.8016-02	.9000	.2329-03	.2806-03	.1783	1.173	536.2
71	157.50	.70000	229.00	.7730-02	.9309-02	.9309-02	.9000	.2706-03	.3259-03	.2077	1.550	534.1
71	157.50	.80000	231.00	.7186-02	.8649-02	.8649-02	.9000	.2516-03	.3028-03	.1936	1.356	532.0
71	180.00	.40000	182.00	.3776-02	.4552-02	.4552-02	.9000	.1322-03	.1594-03	.1010	.8676	538.1
71	180.00	.50000	184.00	.5349-02	.6446-02	.6446-02	.9000	.1872-03	.2257-03	.1431	1.280	537.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 161

OH84B 60-0 FUSELAGE

(R4UA25)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
71	180.00	.60000	186.00	.4796-02	.5779-02	.5779-02	.9000	.1679-03	.2023-03	.1285	1.150	536.1
71	180.00	.70000	188.00	.4101-02	.4938-02	.4938-02	.9000	.1436-03	.1729-03	.1102	.9867	534.3
71	180.00	.80000	190.00	.2978-02	.3584-02	.3584-02	.9000	.1042-03	.1255-03	.8021-01	.7816	532.3
71	315.00	.40000	234.00	.1546-02	.1863-02	.1863-02	.9000	.5413-04	.6522-04	.4144-01	.3090	536.1
71	315.00	.50000	236.00	.1685-02	.2030-02	.2030-02	.9000	.5900-04	.7108-04	.4521-01	.2810	535.4
71	315.00	.70000	240.00	.2735-02	.3293-02	.3293-02	.9000	.9575-04	.1153-03	.7354-01	.5490	533.6
71	315.00	.80000	242.00	.2004-02	.2412-02	.2412-02	.9000	.7017-04	.8443-04	.5406-01	.3789	531.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 162

OH84B 60-0 FUSELAGE

(R4UA26)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
24	X10.6	7.900	39.99	2.018	101.2	1252.	92.84	.1124-01	.4912	3732.	.3269-03	.7471-07
25	.5075	7.900	39.99	2.019	101.0	1251.	92.77	.1122-01	.4903	3730.	.3265-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
24	.1717-01	.5676-01
25	.1715-01	.5679-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
24	.00000	.00000	1.0000	.4778	.5854	.5208	.9550	.8203-02	.8942-02	5.585	30.69	570.8
24	.00000	.50000-02	2.0000	.5197	.6396	.5327	.9870	.8923-02	.9146-02	5.959	40.67	583.8
24	.00000	.10000-01	3.0000	.4841	.5946	.4961	.9870	.8311-02	.8517-02	5.598	37.15	578.1
24	.00000	.20000-01	4.0000	.3593	.4387	.3741	.9782	.6170-02	.6423-02	4.270	23.60	559.5
25	.00000	.30000-01	5.0000	.2775	.3386	.2936	.9695	.4759-02	.5036-02	3.298	18.25	557.5
25	.00000	.40000-01	6.0000	.2571	.3136	.2752	.9635	.4410-02	.4720-02	3.063	16.95	556.2
25	.00000	.50000-01	7.0000	.2224	.2715	.2402	.9589	.3814-02	.4120-02	2.640	17.69	558.5
25	.00000	.60000-01	8.0000	.2295	.2801	.2496	.9556	.3936-02	.4280-02	2.726	17.23	558.2
25	.00000	.70000-01	9.0000	.1960	.2391	.2145	.9522	.3361-02	.3678-02	2.330	16.11	557.4
25	.00000	.80000-01	10.000	.1635	.1994	.1799	.9495	.2804-02	.3084-02	1.947	13.47	556.2
25	.00000	.90000-01	11.000	.1559	.1899	.1720	.9476	.2673-02	.2950-02	1.865	11.82	552.9
25	.00000	.10000+00	12.000	.1449	.1765	.1605	.9458	.2485-02	.2752-02	1.737	10.42	551.7
25	.00000	.12000	13.000	.1265	.1540	.1408	.9432	.2170-02	.2414-02	1.522	8.456	549.1
25	.00000	.13000	14.000	.1266	.1541	.1411	.9424	.2171-02	.2420-02	1.523	8.904	549.3
25	.00000	.14000	15.000	.1211	.1474	.1351	.9418	.2077-02	.2317-02	1.456	9.243	549.5
25	.00000	.15000	16.000	.1248	.1519	.1394	.9413	.2140-02	.2390-02	1.498	9.237	550.7
25	.00000	.16000	17.000	.1235	.1504	.1381	.9407	.2118-02	.2369-02	1.484	9.155	550.1
25	.00000	.17000	18.000	.1201	.1463	.1346	.9400	.2060-02	.2308-02	1.441	9.142	551.1
25	.00000	.18000	19.000	.1188	.1446	.1331	.9396	.2037-02	.2283-02	1.427	9.053	550.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 163

OH84B 60-0 FUSELAGE

(R4UA26)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
25	.00000	.20000	21.000	.1155	.1406	.1298	.9383	.1981-02	.2226-02	1.391	8.830	548.9
25	.00000	.25000	23.000	.1057	.1287	.1193	.9362	.1812-02	.2045-02	1.269	8.052	550.4
25	.00000	.30000	24.000	.1011	.1231	.1141	.9362	.1734-02	.1957-02	1.213	7.692	551.2
25	.00000	.35000	25.000	.1027	.1251	.1159	.9362	.1761-02	.1988-02	1.232	7.812	551.3
25	.00000	.40000	26.000	.9869-01	.1202	.1114	.9362	.1692-02	.1911-02	1.182	7.714	552.2
25	.00000	.45000	1027.0	.8800-01	.1072	.9936-01	.9362	.1509-02	.1704-02	1.053	7.074	553.1
25	.00000	.50000	1028.0	.7817-01	.9522-01	.8826-01	.9362	.1341-02	.1514-02	.9365	6.493	552.1
25	.00000	.55000	1029.0	.7896-01	.9625-01	.8919-01	.9362	.1354-02	.1530-02	.9429	6.965	554.4
25	.00000	.60000	1030.0	.7314-01	.8912-01	.8259-01	.9362	.1254-02	.1416-02	.8748	6.466	553.2
25	.00000	.65000	1031.0	.6580-01	.8018-01	.7430-01	.9362	.1128-02	.1274-02	.7869	5.816	553.4
25	.00000	.70000	1032.0	.6550-01	.7982-01	.7397-01	.9362	.1123-02	.1269-02	.7630	5.987	553.6
25	.00000	.75000	1033.0	.6175-01	.7523-01	.6972-01	.9362	.1059-02	.1196-02	.7393	5.466	552.6
25	.00000	.80000	1034.0	.6344-01	.7725-01	.7161-01	.9362	.1088-02	.1228-02	.7610	5.631	551.2
25	.00000	.85000	1035.0	.5977-01	.7276-01	.6820-01	.9308	.1025-02	.1170-02	.7184	5.502	549.9
25	10.000	.10000+00	45.000	.1516	.1845	.1845	.9000	.2599-02	.3165-02	1.819	11.22	550.8
25	14.000	.50000-01	44.000	.2067	.2517	.2517	.9000	.3544-02	.4317-02	2.476	17.17	552.1
25	20.000	.10000+00	207.00	.2007	.2446	.2446	.9000	.3441-02	.4195-02	2.396	13.98	554.3
25	20.000	.15000	211.00	.1333	.1622	.1622	.9000	.2286-02	.2783-02	1.603	10.18	549.5
25	22.000	.50000-01	202.00	.2419	.2945	.2945	.9000	.4148-02	.5051-02	2.902	16.10	551.1
25	24.000	.20000	48.000	.9742-01	.1186	.1186	.9000	.1671-02	.2034-02	1.170	10.39	550.5
25	24.500	.10000+00	206.00	.1988	.2423	.2423	.9000	.3409-02	.4156-02	2.374	15.03	554.4
25	25.500	.15000	212.00	.1360	.1658	.1658	.9000	.2332-02	.2843-02	1.623	14.39	554.6
25	31.500	.20000	215.00	.9688-01	.1181	.1181	.9000	.1662-02	.2025-02	1.159	11.68	553.2
25	35.000	.50000-01	203.00	.1574	.1913	.1913	.9000	.2699-02	.3281-02	1.902	12.10	545.8
25	35.000	.20000	216.00	.9942-01	.1211	.1211	.9000	.1705-02	.2077-02	1.190	12.00	552.8
25	39.000	.10000+00	209.00	.8320-01	.1010	.1010	.9000	.1427-02	.1733-02	1.011	6.442	542.1
25	40.000	.15000	213.00	.1528	.1863	.1863	.9000	.2620-02	.3195-02	1.821	13.44	555.7
25	40.000	.20000	217.00	.8832-01	.1077	.1077	.9000	.1515-02	.1846-02	1.055	11.69	554.2
25	42.500	.50000-01	204.00	.6912-01	.8385-01	.8385-01	.9000	.1185-02	.1438-02	.8437	5.710	538.9
25	45.500	.15000	214.00	.7234-01	.8782-01	.8782-01	.9000	.1241-02	.1506-02	.8802	5.168	541.2
25	51.000	.20000	218.00	.3808-01	.4619-01	.4619-01	.9000	.6530-03	.7922-03	.4648	2.966	538.9
25	60.000	.50000-01	205.00	.2093-01	.2535-01	.2535-01	.9000	.3589-03	.4348-03	.2572	1.745	534.1
25	67.500	.20000	219.00	.2114-01	.2564-01	.2564-01	.9000	.3625-03	.4397-03	.2585	1.926	537.6
25	96.500	.20000	1220.0	.1784-01	.2162-01	.2162-01	.9000	.3059-03	.3708-03	.2185	1.576	536.5
24	114.00	.40000	388.00	.1679-01	.2034-01	.2034-01	.9000	.2883-03	.3492-03	.2069	1.494	534.0
24	114.00	.50000	390.00	.1476-01	.1787-01	.1787-01	.9000	.2535-03	.3068-03	.1825	1.137	531.6
24	114.00	.70000	394.00	.2995-03	.3623-03	.3623-03	.9000	.5142-05	.6219-05	.3716-02	.2454-01	529.0
24	157.50	.40000	223.00	.2545-02	.3080-02	.3080-02	.9000	.4370-04	.5288-04	.3152-01	.2080	530.4
24	157.50	.50000	225.00	.2371-02	.2871-02	.2871-02	.9000	.4071-04	.4929-04	.2928-01	.1930	532.4
24	157.50	.70000	229.00	.3127-02	.3781-02	.3781-02	.9000	.5369-04	.6491-04	.3889-01	.2912	527.4
24	157.50	.80000	231.00	.4412-02	.5332-02	.5332-02	.9000	.7574-04	.9155-04	.5492-01	.3858	526.5
24	180.00	.40000	182.00	.2495-02	.3020-02	.3020-02	.9000	.4284-04	.5184-04	.3087-01	.2662	531.1
24	180.00	.50000	184.00	.2226-02	.2693-02	.2693-02	.9000	.3822-04	.4624-04	.2760-01	.2477	529.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 164

OH84B 60-0 FUSELAGE

(R4UA26)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
24	180.00	.60000	186.00	.2505-02	.3029-02	.3029-02	.9000	.4301-04	.5201-04	.3113-01	.2797	528.0
24	180.00	.70000	188.00	.2828-02	.3420-02	.3420-02	.9000	.4855-04	.5871-04	.3512-01	.3154	528.4
24	180.00	.80000	190.00	.2848-02	.3443-02	.3443-02	.9000	.4890-04	.5911-04	.3542-01	.3460	527.3
24	315.00	.40000	234.00	.1488-02	.1800-02	.1800-02	.9000	.2554-04	.3090-04	.1843-01	.1378	530.1
24	315.00	.50000	236.00	.2173-02	.2628-02	.2628-02	.9000	.3730-04	.4512-04	.2696-01	.1681	529.0
24	315.00	.70000	240.00	.6064-03	.7331-03	.7331-03	.9000	.1041-04	.1259-04	.7540-02	.5647-01	527.5
24	315.00	.80000	242.00	.1342-02	.1622-02	.1622-02	.9000	.2305-04	.2786-04	.1671-01	.1174	526.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 165

OH84B 60-0 FUSELAGE

(R4UA26)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
39	1.016	7.940	40.02	2.015	206.2	1256.	92.27	.2218-01	.9789	3739.	.6489-03	.7425-07
40	1.021	7.940	40.02	2.016	206.8	1254.	92.12	.2225-01	.9818	3736.	.6518-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
39	.2425-01	.4030-01
40	.2428-01	.4021-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
39	.00000	.00000	1.0000	.4720	.5807	.5155	.9550	.1145-01	.1250-01	7.677	41.89	585.0
39	.00000	.50000-02	2.0000	.5166	.6407	.5299	.9870	.1253-01	.1285-01	8.116	54.74	607.8
39	.00000	.10000-01	3.0000	.4764	.5892	.4886	.9870	.1155-01	.1185-01	7.582	49.79	599.4
39	.00000	.20000-01	4.0000	.3539	.4334	.3686	.9782	.8583-02	.8940-02	5.876	32.29	571.0
40	.00000	.30000-01	5.0000	.2760	.3378	.2923	.9695	.6701-02	.7096-02	4.592	25.27	568.3
40	.00000	.40000-01	6.0000	.2551	.3120	.2733	.9635	.6194-02	.6635-02	4.257	23.45	566.3
40	.00000	.50000-01	7.0000	.2203	.2698	.2382	.9590	.5349-02	.5784-02	3.659	24.39	569.6
40	.00000	.60000-01	8.0000	.2272	.2781	.2473	.9556	.5515-02	.6003-02	3.775	23.72	569.3
40	.00000	.70000-01	9.0000	.1940	.2374	.2125	.9522	.4709-02	.5160-02	3.228	22.20	568.3
40	.00000	.80000-01	10.000	.1604	.1961	.1766	.9496	.3895-02	.4288-02	2.682	18.47	565.1
40	.00000	.90000-01	11.000	.1526	.1864	.1686	.9477	.3706-02	.4093-02	2.568	16.21	560.7
40	.00000	.10000+00	12.000	.1420	.1733	.1574	.9458	.3448-02	.3822-02	2.391	14.28	560.2
40	.00000	.12000	13.000	.1251	.1525	.1393	.9433	.3036-02	.3381-02	2.116	11.71	556.6
40	.00000	.13000	14.000	.1242	.1515	.1386	.9424	.3016-02	.3365-02	2.101	12.23	557.2
40	.00000	.14000	15.000	.1205	.1469	.1346	.9418	.2925-02	.3267-02	2.035	12.86	557.8
40	.00000	.15000	16.000	.1222	.1491	.1367	.9414	.2967-02	.3318-02	2.060	12.65	559.2
40	.00000	.16000	17.000	.1213	.1480	.1358	.9407	.2945-02	.3298-02	2.047	12.57	558.8
40	.00000	.17000	18.000	.1197	.1461	.1342	.9401	.2905-02	.3258-02	2.015	12.73	560.0
40	.00000	.18000	19.000	.1175	.1434	.1319	.9397	.2854-02	.3203-02	1.982	12.52	559.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA26)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
40	.00000	.20000	21.000	.1140	.1391	.1283	.9384	.2768-02	.3114-02	1.927	12.18	557.7
40	.00000	.25000	23.000	.1048	.1279	.1185	.9362	.2545-02	.2877-02	1.766	11.15	559.7
40	.00000	.30000	24.000	.9712-01	.1185	.1098	.9362	.2358-02	.2665-02	1.637	10.34	559.6
40	.00000	.35000	25.000	.9937-01	.1213	.1123	.9362	.2413-02	.2727-02	1.674	10.57	559.8
40	.00000	.40000	26.000	.9459-01	.1155	.1069	.9362	.2297-02	.2596-02	1.590	10.33	561.4
40	.00000	.45000	1027.0	.8352-01	.1020	.9443-01	.9362	.2028-02	.2293-02	1.402	9.378	562.3
40	.00000	.50000	1028.0	.7896-01	.9641-01	.8926-01	.9362	.1917-02	.2167-02	1.328	9.168	560.9
40	.00000	.55000	1029.0	.7659-01	.9362-01	.8664-01	.9362	.1859-02	.2103-02	1.281	9.416	564.7
40	.00000	.60000	1030.0	.7038-01	.8600-01	.7950-01	.9362	.1709-02	.1933-02	1.179	8.674	563.4
40	.00000	.65000	1031.0	.6370-01	.7788-01	.7207-01	.9362	.1547-02	.1750-02	1.066	7.831	564.7
40	.00000	.70000	1032.0	.6399-01	.7822-01	.7239-01	.9362	.1554-02	.1757-02	1.071	8.142	564.4
40	.00000	.75000	1033.0	.5884-01	.7191-01	.6655-01	.9362	.1428-02	.1616-02	.9848	7.239	564.3
40	.00000	.80000	1034.0	.6278-01	.7670-01	.7100-01	.9362	.1524-02	.1724-02	1.053	7.745	562.9
40	.00000	.85000	1035.0	.5833-01	.7123-01	.6669-01	.9308	.1416-02	.1619-02	.9805	7.467	561.4
40	10.000	.10000+00	45.000	.1501	.1831	.1831	.9000	.3643-02	.4446-02	2.528	15.52	559.6
40	14.000	.50000-01	44.000	.2055	.2510	.2510	.9000	.4990-02	.6094-02	3.453	23.82	561.7
40	20.000	.10000+00	207.00	.1961	.2397	.2397	.9000	.4762-02	.5819-02	3.287	19.08	563.4
40	20.000	.15000	211.00	.1314	.1603	.1603	.9000	.3190-02	.3892-02	2.220	14.03	557.9
40	22.000	.50000-01	202.00	.2400	.2929	.2929	.9000	.5826-02	.7111-02	4.040	22.32	560.2
40	24.000	.20000	48.000	.9570-01	.1168	.1168	.9000	.2323-02	.2836-02	1.612	14.25	560.1
40	24.500	.10000+00	208.00	.1956	.2390	.2390	.9000	.4749-02	.5803-02	3.277	20.66	563.5
40	25.500	.15000	212.00	.1341	.1639	.1639	.9000	.3256-02	.3980-02	2.245	19.80	564.4
40	31.500	.20000	215.00	.9565-01	.1169	.1169	.9000	.2322-02	.2838-02	1.602	16.06	564.0
40	35.000	.50000-01	203.00	.1554	.1892	.1892	.9000	.3774-02	.4594-02	2.651	16.81	551.3
40	35.000	.20000	216.00	.9764-01	.1193	.1193	.9000	.2371-02	.2896-02	1.640	16.45	562.1
40	39.000	.10000+00	209.00	.8174-01	.9934-01	.9934-01	.9000	.1985-02	.2412-02	1.405	8.933	545.9
40	40.000	.15000	213.00	.1497	.1831	.1831	.9000	.3635-02	.4445-02	2.502	18.38	565.5
40	40.000	.20000	217.00	.9222-01	.1127	.1127	.9000	.2239-02	.2736-02	1.545	17.04	563.7
40	42.500	.50000-01	204.00	.6740-01	.8183-01	.8183-01	.9000	.1636-02	.1987-02	1.164	7.860	542.7
40	45.500	.15000	214.00	.7255-01	.8817-01	.8817-01	.9000	.1761-02	.2141-02	1.246	7.297	546.2
40	51.000	.20000	218.00	.3711-01	.4505-01	.4505-01	.9000	.9009-03	.1094-02	.6408	4.082	542.4
40	60.000	.50000-01	205.00	.1931-01	.2339-01	.2339-01	.9000	.4687-03	.5678-03	.3367	2.283	535.3
40	67.500	.20000	219.00	.2059-01	.2498-01	.2498-01	.9000	.4999-03	.6066-03	.3563	2.650	540.9
40	96.500	.20000	1220.0	.1769-01	.2146-01	.2146-01	.9000	.4296-03	.5211-03	.3067	2.209	539.6
39	114.00	.40000	388.00	.1779-01	.2155-01	.2155-01	.9000	.4315-03	.5227-03	.3106	2.241	535.9
39	114.00	.50000	390.00	.1736-01	.2102-01	.2102-01	.9000	.4211-03	.5099-03	.3036	1.888	534.6
39	114.00	.70000	394.00	.5624-04	.6801-04	.6801-04	.9000	.1364-05	.1649-05	.9898-03	.6532-02	529.9
39	157.50	.40000	223.00	.4506-02	.5452-02	.5452-02	.9000	.1093-03	.1322-03	.7909-01	.5215	531.9
39	157.50	.50000	225.00	.3183-02	.3853-02	.3853-02	.9000	.7720-04	.9344-04	.5578-01	.3675	533.2
39	157.50	.70000	229.00	.5331-02	.6445-02	.6445-02	.9000	.1293-03	.1563-03	.9391-01	.7026	529.2
39	157.50	.80000	231.00	.4452-02	.5380-02	.5380-02	.9000	.1080-03	.1305-03	.7863-01	.5521	527.4
39	180.00	.40000	182.00	.3061-02	.3704-02	.3704-02	.9000	.7423-04	.8983-04	.5369-01	.4628	532.4
39	180.00	.50000	184.00	.3887-02	.4702-02	.4702-02	.9000	.9426-04	.1140-03	.6827-01	.6123	531.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA26)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
39	180.00	.60000	186.00	.3597-02	.4350-02	.4350-02	.9000	.8723-04	.1055-03	.6327-01	.5677	530.4
39	180.00	.70000	188.00	.2858-02	.3456-02	.3456-02	.9000	.6932-04	.8382-04	.5032-01	.4517	529.7
39	180.00	.80000	190.00	.1646-02	.1990-02	.1990-02	.9000	.3993-04	.4825-04	.2906-01	.2838	527.8
39	315.00	.40000	234.00	.1533-02	.1855-02	.1855-02	.9000	.3718-04	.4498-04	.2694-01	.2014	531.1
39	315.00	.50000	236.00	.2040-02	.2467-02	.2467-02	.9000	.4946-04	.5982-04	.3589-01	.2237	530.1
39	315.00	.70000	240.00	.8339-03	.1008-02	.1008-02	.9000	.2022-04	.2444-04	.1471-01	.1101	528.3
39	315.00	.80000	242.00	.1908-02	.2305-02	.2305-02	.9000	.4627-04	.5591-04	.3371-01	.2367	527.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA26)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
68	2.002	7.980	40.01	2.012	434.5	1301.	94.69	.4523-01	2.016	3807.	.1289-02	.7620-07
69	2.003	7.980	40.01	2.011	433.8	1299.	94.54	.4516-01	2.013	3804.	.1289-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
68	.3502-01	.2870-01
69	.3498-01	.2869-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
68	.00000	.00000	1.0000	.4693	.5774	.5125	.9550	.1643-01	.1795-01	11.43	61.73	605.4
68	.00000	.50000-02	2.0000	.5111	.6363	.5245	.9870	.1790-01	.1837-01	11.83	78.55	639.7
68	.00000	.10000-01	3.0000	.4746	.5887	.4869	.9870	.1662-01	.1705-01	11.16	72.22	629.3
68	.00000	.20000-01	4.0000	.3553	.4346	.3700	.9782	.1244-01	.1296-01	8.870	48.33	587.8
69	.00000	.30000-01	5.0000	.2740	.3346	.2900	.9695	.9585-02	.1014-01	6.879	37.61	581.0
69	.00000	.40000-01	6.0000	.2518	.3072	.2695	.9635	.8808-02	.9427-02	6.346	34.74	578.2
69	.00000	.50000-01	7.0000	.2160	.2640	.2334	.9590	.7556-02	.8165-02	5.404	35.77	583.6
69	.00000	.60000-01	8.0000	.2239	.2736	.2436	.9556	.7833-02	.8520-02	5.603	34.97	583.4
69	.00000	.70000-01	9.0000	.1919	.2344	.2101	.9522	.6712-02	.7349-02	4.807	32.82	582.5
69	.00000	.80000-01	10.000	.1590	.1940	.1749	.9495	.5560-02	.6118-02	3.996	27.32	580.0
69	.00000	.90000-01	11.000	.1522	.1854	.1679	.9477	.5322-02	.5873-02	3.859	24.20	573.6
69	.00000	.10000+00	12.000	.1410	.1716	.1561	.9458	.4931-02	.5459-02	3.586	21.29	571.5
69	.00000	.12000	13.000	.1234	.1501	.1372	.9433	.4318-02	.4801-02	3.162	17.41	566.4
69	.00000	.13000	14.000	.1220	.1483	.1359	.9424	.4266-02	.4752-02	3.119	18.07	567.6
69	.00000	.14000	15.000	.1189	.1446	.1326	.9418	.4158-02	.4639-02	3.033	19.06	569.2
69	.00000	.15000	16.000	.1230	.1498	.1374	.9414	.4303-02	.4807-02	3.129	19.10	571.5
69	.00000	.16000	17.000	.1200	.1460	.1342	.9407	.4196-02	.4693-02	3.052	18.63	571.3
69	.00000	.17000	18.000	.1185	.1443	.1327	.9401	.4146-02	.4643-02	3.008	18.87	573.1
69	.00000	.18000	19.000	.1156	.1408	.1296	.9397	.4044-02	.4533-02	2.936	18.43	572.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA26)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
69	.00000	.20000	21.000	.1119	.1363	.1258	.9384	.3915-02	.4399-02	2.847	17.88	571.4
69	.00000	.25000	23.000	.1012	.1234	.1143	.9362	.3542-02	.3999-02	2.564	16.07	574.6
69	.00000	.30000	24.000	.9636-01	.1175	.1088	.9362	.3370-02	.3807-02	2.435	15.25	576.2
69	.00000	.35000	25.000	.9863-01	.1203	.1114	.9362	.3450-02	.3898-02	2.486	15.56	578.1
69	.00000	.40000	26.000	.9858-01	.1204	.1115	.9362	.3448-02	.3899-02	2.472	15.89	581.9
69	.00000	.45000	1027.0	.8227-01	.1005	.9303-01	.9362	.2878-02	.3254-02	2.059	13.63	583.0
69	.00000	.50000	1028.0	.6927-01	.8442-01	.7822-01	.9362	.2423-02	.2736-02	1.753	12.01	575.2
69	.00000	.55000	1029.0	.8270-01	.1012	.9361-01	.9362	.2893-02	.3274-02	2.056	14.94	587.9
69	.00000	.60000	1030.0	.6999-01	.8562-01	.7921-01	.9362	.2448-02	.2771-02	1.742	12.66	587.2
69	.00000	.65000	1031.0	.6314-01	.7723-01	.7145-01	.9362	.2209-02	.2499-02	1.572	11.42	587.0
69	.00000	.70000	1032.0	.6501-01	.7936-01	.7348-01	.9362	.2274-02	.2570-02	1.634	12.32	580.3
69	.00000	.75000	1033.0	.6323-01	.7716-01	.7145-01	.9362	.2212-02	.2499-02	1.591	11.61	579.4
69	.00000	.80000	1034.0	.7307-01	.8918-01	.8258-01	.9362	.2556-02	.2889-02	1.838	13.41	579.6
69	.00000	.85000	1035.0	.7531-01	.9190-01	.8606-01	.9308	.2634-02	.3010-02	1.895	14.31	579.2
69	10.000	.10000+00	45.000	.1493	.1816	.1816	.9000	.5221-02	.6354-02	3.804	23.23	570.2
69	14.000	.50000-01	44.000	.2032	.2476	.2476	.9000	.7109-02	.8662-02	5.149	35.30	574.4
69	20.000	.10000+00	207.00	.1991	.2429	.2429	.9000	.6965-02	.8496-02	5.019	28.92	578.1
69	20.000	.15000	211.00	.1296	.1576	.1576	.9000	.4532-02	.5512-02	3.311	20.62	568.2
69	22.000	.50000-01	202.00	.2396	.2917	.2917	.9000	.8380-02	.1020-01	6.087	33.42	572.3
69	24.000	.20000	48.000	.9365-01	.1141	.1141	.9000	.3276-02	.3990-02	2.376	20.86	573.4
69	24.500	.10000+00	208.00	.1985	.2422	.2422	.9000	.6943-02	.8471-02	5.001	31.29	578.4
69	25.500	.15000	212.00	.1191	.1448	.1448	.9000	.4165-02	.5066-02	3.042	26.78	568.3
69	31.500	.20000	215.00	.9506-01	.1160	.1160	.9000	.3325-02	.4057-02	2.394	23.83	578.7
69	35.000	.50000-01	203.00	.1579	.1917	.1917	.9000	.5523-02	.6705-02	4.072	25.69	561.5
69	35.000	.20000	216.00	.9818-01	.1197	.1197	.9000	.3434-02	.4188-02	2.477	24.66	577.5
69	39.000	.10000+00	209.00	.8323-01	.1007	.1007	.9000	.2911-02	.3523-02	2.176	13.80	551.1
69	40.000	.15000	213.00	.1522	.1857	.1857	.9000	.5322-02	.6497-02	3.823	27.87	580.5
69	40.000	.20000	217.00	.9209-01	.1124	.1124	.9000	.3221-02	.3932-02	2.314	25.32	580.3
69	42.500	.50000-01	204.00	.6901-01	.8342-01	.8342-01	.9000	.2414-02	.2918-02	1.814	12.22	547.3
69	45.500	.15000	214.00	.7300-01	.8829-01	.8829-01	.9000	.2553-02	.3088-02	1.914	11.20	548.9
69	51.000	.20000	218.00	.3778-01	.4566-01	.4566-01	.9000	.1321-02	.1597-02	.9944	6.323	546.2
69	60.000	.50000-01	205.00	.1886-01	.2274-01	.2274-01	.9000	.6596-03	.7953-03	.5021	3.401	537.5
69	67.500	.20000	219.00	.2037-01	.2460-01	.2460-01	.9000	.7124-03	.8604-03	.5379	3.995	543.7
69	96.500	.20000	1220.0	.1813-01	.2190-01	.2190-01	.9000	.6342-03	.7659-03	.4791	3.444	543.3
68	114.00	.40000	388.00	.1685-01	.2035-01	.2035-01	.9000	.5901-03	.7125-03	.4469	3.212	543.4
68	114.00	.50000	390.00	.1929-01	.2329-01	.2329-01	.9000	.6756-03	.8155-03	.5123	3.173	542.4
68	114.00	.70000	394.00	.8575-03	.1033-02	.1033-02	.9000	.3003-04	.3618-04	.2298-01	.1512	535.4
68	157.50	.40000	223.00	.6667-02	.8037-02	.8037-02	.9000	.2334-03	.2814-03	.1781	1.170	537.9
68	157.50	.50000	225.00	.6387-02	.7697-02	.7697-02	.9000	.2236-03	.2695-03	.1708	1.123	536.9
68	157.50	.70000	229.00	.6601-02	.7951-02	.7951-02	.9000	.2312-03	.2784-03	.1771	1.322	534.3
68	157.50	.80000	231.00	.5770-02	.6945-02	.6945-02	.9000	.2020-03	.2432-03	.1553	1.088	532.0
68	180.00	.40000	182.00	.4117-02	.4965-02	.4965-02	.9000	.1442-03	.1736-03	.1098	.9435	538.9
68	180.00	.50000	184.00	.5448-02	.6568-02	.6568-02	.9000	.1908-03	.2300-03	.1455	1.301	537.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 170

OH84B 60-0 FUSELAGE

(R4UA26)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
68	180.00	.60000	186.00	.4535-02	.5465-02	.5465-02	.9000	.1588-03	.1914-03	.1213	1.085	536.6
68	180.00	.70000	188.00	.3623-02	.4365-02	.4365-02	.9000	.1269-03	.1528-03	.9710-01	.8692	535.3
68	180.00	.80000	190.00	.2948-02	.3550-02	.3550-02	.9000	.1032-03	.1243-03	.7928-01	.7723	532.8
68	315.00	.40000	234.00	.1488-02	.1793-02	.1793-02	.9000	.5210-04	.6278-04	.3982-01	.2968	536.3
68	315.00	.50000	236.00	.1628-02	.1962-02	.1962-02	.9000	.5701-04	.6869-04	.4362-01	.2711	535.6
68	315.00	.70000	240.00	.1780-02	.2144-02	.2144-02	.9000	.6233-04	.7506-04	.4783-01	.3571	533.4
68	315.00	.80000	242.00	.2027-02	.2439-02	.2439-02	.9000	.7097-04	.8541-04	.5458-01	.3824	531.6

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 171

OH84B 60-O FUSELAGE

(R4UA27)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
27	.5107	7.900	40.02	4.000	101.5	1249.	92.62	.1128-01	.4926	3727.	.3286-03	.7453-07
28	.5063	7.900	40.02	4.000	100.5	1248.	92.54	.1116-01	.4878	3726.	.3256-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
27	.1719-01	.5660-01
28	.1710-01	.5686-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
27	.00000	.00000	1.0000	.4797	.5878	.5230	.9550	.8244-02	.8989-02	5.598	30.78	569.7
27	.00000	.50000-02	2.0000	.5148	.6337	.5277	.9870	.8848-02	.9069-02	5.891	40.23	582.8
27	.00000	.10000-01	3.0000	.4799	.5896	.4918	.9870	.8248-02	.8452-02	5.537	36.76	577.3
27	.00000	.20000-01	4.0000	.3592	.4386	.3739	.9782	.6173-02	.6426-02	4.260	23.55	558.6
28	.00000	.30000-01	5.0000	.2789	.3405	.2952	.9695	.4769-02	.5047-02	3.292	18.21	557.4
28	.00000	.40000-01	6.0000	.2603	.3175	.2786	.9635	.4450-02	.4764-02	3.079	17.05	555.8
28	.00000	.50000-01	7.0000	.2219	.2710	.2397	.9590	.3795-02	.4099-02	2.616	17.53	558.3
28	.00000	.60000-01	8.0000	.2302	.2810	.2503	.9556	.3936-02	.4279-02	2.714	17.16	558.0
28	.00000	.70000-01	9.0000	.1973	.2408	.2160	.9522	.3374-02	.3693-02	2.330	16.11	557.2
28	.00000	.80000-01	10.000	.1649	.2012	.1814	.9496	.2820-02	.3102-02	1.951	13.50	555.9
28	.00000	.90000-01	11.000	.1558	.1899	.1719	.9477	.2664-02	.2940-02	1.852	11.74	552.6
28	.00000	.10000+00	12.000	.1441	.1756	.1596	.9458	.2464-02	.2729-02	1.716	10.29	551.3
28	.00000	.12000	13.000	.1286	.1565	.1431	.9433	.2199-02	.2446-02	1.537	8.543	548.5
28	.00000	.13000	14.000	.1263	.1538	.1408	.9424	.2160-02	.2408-02	1.510	8.831	548.8
28	.00000	.14000	15.000	.1222	.1488	.1364	.9418	.2090-02	.2332-02	1.460	9.270	549.1
28	.00000	.15000	16.000	.1252	.1525	.1399	.9414	.2141-02	.2392-02	1.494	9.214	550.2
28	.00000	.16000	17.000	.1235	.1504	.1382	.9407	.2112-02	.2363-02	1.474	9.098	549.7
28	.00000	.17000	18.000	.1221	.1487	.1367	.9401	.2087-02	.2338-02	1.455	9.229	550.7
28	.00000	.18000	19.000	.1199	.1461	.1345	.9397	.2051-02	.2299-02	1.431	9.079	550.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

AGE 172

OH84B 60-0 FUSELAGE

(R4UA27)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
28	.00000	.20000	21.000	.1158	.1409	.1301	.9384	.1980-02	.2224-02	1.384	8.788	548.7
28	.00000	.25000	23.000	.1049	.1278	.1185	.9362	.1794-02	.2025-02	1.252	7.943	550.1
28	.00000	.30000	24.000	.1011	.1231	.1141	.9362	.1728-02	.1951-02	1.204	7.637	551.0
28	.00000	.35000	25.000	.1021	.1243	.1152	.9362	.1745-02	.1970-02	1.216	7.709	551.2
28	.00000	.40000	26.000	.9857-01	.1201	.1113	.9362	.1685-02	.1903-02	1.172	7.646	552.4
28	.00000	.45000	1027.0	.8672-01	.1057	.9794-01	.9362	.1483-02	.1675-02	1.030	6.922	553.1
28	.00000	.50000	1028.0	.8050-01	.9811-01	.9090-01	.9362	.1376-02	.1554-02	.9568	6.633	552.5
28	.00000	.55000	1029.0	.7786-01	.9494-01	.8795-01	.9362	.1331-02	.1504-02	.9229	6.818	554.4
28	.00000	.60000	1030.0	.7258-01	.8848-01	.8197-01	.9362	.1241-02	.1402-02	.8618	6.370	553.3
28	.00000	.65000	1031.0	.6633-01	.8084-01	.7490-01	.9362	.1134-02	.1281-02	.7880	5.826	552.8
28	.00000	.70000	1032.0	.6646-01	.8102-01	.7506-01	.9362	.1135-02	.1283-02	.7894	6.037	553.1
28	.00000	.75000	1033.0	.6213-01	.7570-01	.7015-01	.9362	.1062-02	.1199-02	.7392	5.468	551.8
28	.00000	.80000	1034.0	.6435-01	.7838-01	.7264-01	.9362	.1100-02	.1242-02	.7669	5.676	550.6
28	.00000	.85000	1035.0	.6051-01	.7367-01	.6904-01	.9308	.1035-02	.1180-02	.7226	5.536	549.3
28	.10000	.10000+00	45.000	.1496	.1822	.1822	.9000	.2558-02	.3115-02	1.785	11.01	550.0
28	.14.000	.50000-01	44.000	.2014	.2454	.2454	.9000	.3444-02	.4196-02	2.397	16.63	551.5
28	.20.000	.10000+00	207.00	.1915	.2334	.2334	.9000	.3274-02	.3991-02	2.274	13.27	553.1
28	.20.000	.15000	211.00	.1307	.1590	.1590	.9000	.2234-02	.2719-02	1.563	9.928	548.2
28	.22.000	.50000-01	202.00	.2338	.2848	.2848	.9000	.3997-02	.4870-02	2.783	15.44	551.4
28	.24.000	.20000	48.000	.9420-01	.1147	.1147	.9000	.1611-02	.1961-02	1.125	9.999	549.2
28	.24.500	.10000+00	208.00	.1874	.2285	.2285	.9000	.3205-02	.3906-02	2.227	14.11	552.8
28	.25.500	.15000	212.00	.1301	.1586	.1586	.9000	.2225-02	.2711-02	1.546	13.71	552.8
28	.31.500	.20000	215.00	.9223-01	.1124	.1124	.9000	.1577-02	.1921-02	1.097	11.07	551.7
28	.35.000	.50000-01	203.00	.1459	.1774	.1774	.9000	.2495-02	.3034-02	1.754	11.16	544.8
28	.35.000	.20000	216.00	.9399-01	.1145	.1145	.9000	.1607-02	.1958-02	1.119	11.29	551.2
28	.39.000	.10000+00	209.00	.7490-01	.9094-01	.9094-01	.9000	.1281-02	.1555-02	.9058	5.777	540.3
28	.40.000	.15000	213.00	.1408	.1716	.1716	.9000	.2407-02	.2935-02	1.672	12.36	553.2
28	.40.000	.20000	217.00	.8765-01	.1068	.1068	.9000	.1499-02	.1826-02	1.042	11.56	552.4
28	.42.500	.50000-01	204.00	.6258-01	.7593-01	.7593-01	.9000	.1070-02	.1298-02	.7594	5.142	538.0
28	.45.500	.15000	214.00	.6408-01	.7779-01	.7779-01	.9000	.1096-02	.1330-02	.7764	4.563	539.2
28	.51.000	.20000	218.00	.3289-01	.3990-01	.3990-01	.9000	.5624-03	.6823-03	.3993	2.550	537.6
28	.60.000	.50000-01	205.00	.1913-01	.2318-01	.2318-01	.9000	.3271-03	.3964-03	.2336	1.585	533.6
28	.67.500	.20000	219.00	.1792-01	.2173-01	.2173-01	.9000	.3064-03	.3715-03	.2179	1.625	536.4
28	.96.500	.20000	1220.0	.1539-01	.1866-01	.1866-01	.9000	.2632-03	.3191-03	.1874	1.352	535.6
27	.114.00	.40000	388.00	.1411-01	.1709-01	.1709-01	.9000	.2425-03	.2938-03	.1735	1.254	533.0
27	.114.00	.50000	390.00	.1050-01	.1271-01	.1271-01	.9000	.1804-03	.2184-03	.1295	.8066	531.0
27	.114.00	.70000	394.00	.2827-03	.3421-03	.3421-03	.9000	.4859-05	.5878-05	.3499-02	.2311-01	528.5
27	.157.50	.40000	223.00	.2981-02	.3608-02	.3608-02	.9000	.5123-04	.6201-04	.3681-01	.2429	530.1
27	.157.50	.50000	225.00	.2428-02	.2941-02	.2941-02	.9000	.4173-04	.5054-04	.2991-01	.1972	532.0
27	.157.50	.70000	229.00	.3032-02	.3666-02	.3666-02	.9000	.5210-04	.6300-04	.3760-01	.2816	527.1
27	.157.50	.80000	231.00	.4292-02	.5189-02	.5189-02	.9000	.7377-04	.8917-04	.5332-01	.3746	525.9
27	.180.00	.40000	182.00	.3195-02	.3868-02	.3868-02	.9000	.5490-04	.6647-04	.3941-01	.3399	531.0
27	.180.00	.50000	184.00	.2471-02	.2990-02	.2990-02	.9000	.4246-04	.5138-04	.3054-01	.2742	529.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 173

OH84B 60-0 FUSELAGE

(R4UA27)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
27	180.00	.60000	186.00	.2484-02	.3005-02	.3005-02	.9000	.4269-04	.5164-04	.3078-01	.2766	527.7
27	180.00	.70000	188.00	.2461-02	.2977-02	.2977-02	.9000	.4230-04	.5117-04	.3047-01	.2737	528.3
27	180.00	.80000	190.00	.3185-02	.3851-02	.3851-02	.9000	.5473-04	.6618-04	.3950-01	.3860	526.9
27	315.00	.40000	234.00	.1541-02	.1865-02	.1865-02	.9000	.2648-04	.3205-04	.1904-01	.1424	529.7
27	315.00	.50000	236.00	.1999-02	.2419-02	.2419-02	.9000	.3436-04	.4156-04	.2475-01	.1544	528.4
27	315.00	.70000	240.00	.5202-03	.6290-03	.6290-03	.9000	.8939-05	.1081-04	.6451-02	.4833-01	527.0
27	315.00	.80000	242.00	.1893-02	.2288-02	.2288-02	.9000	.3252-04	.3932-04	.2350-01	.1651	526.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 174

OH84B 60-0 FUSELAGE

(R4UA27)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
42	1.017	7.940	39.99	4.011	205.6	1252.	91.98	.2212-01	.9761	3733.	.6491-03	.7401-07
43	1.018	7.940	40.00	4.023	206.3	1254.	92.12	.2219-01	.9794	3736.	.6502-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
42	.2420-01	.4028-01
43	.2425-01	.4025-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=0 TAW/TO	TAW/TO	H(TOI) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
42	.00000	.00000	1.0000	.4725	.5819	.5162	.9550	.1144-01	.1249-01	7.615	41.54	585.3
42	.00000	.50000-02	2.0000	.5073	.6299	.5204	.9870	.1228-01	.1260-01	7.893	53.21	608.8
42	.00000	.10000-01	3.0000	.4736	.5863	.4857	.9870	.1146-01	.1176-01	7.465	49.00	600.4
42	.00000	.20000-01	4.0000	.3535	.4332	.3683	.9782	.8556-02	.8913-02	5.821	31.98	571.3
43	.00000	.30000-01	5.0000	.2758	.3376	.2921	.9695	.6688-02	.7084-02	4.580	25.19	568.9
43	.00000	.40000-01	6.0000	.2549	.3118	.2731	.9635	.6181-02	.6622-02	4.245	23.37	566.9
43	.00000	.50000-01	7.0000	.2195	.2689	.2374	.9589	.5324-02	.5758-02	3.638	24.24	570.3
43	.00000	.60000-01	8.0000	.2258	.2765	.2458	.9556	.5476-02	.5961-02	3.744	23.52	569.9
43	.00000	.70000-01	9.0000	.1925	.2357	.2110	.9522	.4669-02	.5117-02	3.198	21.99	568.8
43	.00000	.80000-01	10.000	.1590	.1944	.1751	.9495	.3855-02	.4246-02	2.652	18.27	565.6
43	.00000	.90000-01	11.000	.1519	.1855	.1678	.9477	.3684-02	.4069-02	2.551	16.10	561.1
43	.00000	.10000+00	12.000	.1418	.1731	.1572	.9458	.3438-02	.3811-02	2.383	14.23	560.4
43	.00000	.12000	13.000	.1263	.1539	.1406	.9433	.3052-02	.3410-02	2.135	11.81	556.5
43	.00000	.13000	14.000	.1239	.1511	.1383	.9424	.3005-02	.3353-02	2.093	12.19	557.1
43	.00000	.14000	15.000	.1200	.1464	.1341	.9418	.2910-02	.3251-02	2.024	12.79	558.0
43	.00000	.15000	16.000	.1236	.1508	.1382	.9413	.2997-02	.3352-02	2.081	12.78	559.5
43	.00000	.16000	17.000	.1213	.1480	.1358	.9407	.2942-02	.3294-02	2.044	12.55	559.0
43	.00000	.17000	18.000	.1208	.1475	.1355	.9401	.2930-02	.3286-02	2.032	12.83	560.1
43	.00000	.18000	19.000	.1184	.1446	.1329	.9396	.2872-02	.3224-02	1.994	12.59	559.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 175

OH84B 60-0 FUSELAGE

(R4UA27)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
43	.00000	.20000	21.000	.1144	.1395	.1287	.9384	.2773-02	.3120-02	1.929	12.19	558.0
43	.00000	.25000	23.000	.1035	.1263	.1170	.9362	.2509-02	.2836-02	1.741	10.99	559.8
43	.00000	.30000	24.000	.9775-01	.1193	.1105	.9362	.2370-02	.2679-02	1.645	10.39	559.8
43	.00000	.35000	25.000	.9943-01	.1214	.1124	.9362	.2411-02	.2726-02	1.672	10.55	560.4
43	.00000	.40000	26.000	.9673-01	.1182	.1094	.9362	.2346-02	.2653-02	1.621	10.53	562.5
43	.00000	.45000	1027.0	.8448-01	.1032	.9555-01	.9362	.2049-02	.2317-02	1.414	9.457	563.3
43	.00000	.50000	1028.0	.7962-01	.9727-01	.9004-01	.9362	.1931-02	.2183-02	1.334	9.198	562.8
43	.00000	.55000	1029.0	.7687-01	.9400-01	.8698-01	.9362	.1864-02	.2109-02	1.282	9.415	565.9
43	.00000	.60000	1030.0	.7169-01	.8764-01	.8110-01	.9362	.1738-02	.1967-02	1.198	8.803	564.7
43	.00000	.65000	1031.0	.6432-01	.7865-01	.7278-01	.9362	.1560-02	.1765-02	1.073	7.886	565.5
43	.00000	.70000	1032.0	.6410-01	.7837-01	.7252-01	.9362	.1554-02	.1759-02	1.070	8.135	565.2
43	.00000	.75000	1033.0	.6014-01	.7351-01	.6803-01	.9362	.1458-02	.1650-02	1.005	7.385	564.6
43	.00000	.80000	1034.0	.6272-01	.7664-01	.7094-01	.9362	.1521-02	.1720-02	1.050	7.722	563.3
43	.00000	.85000	1035.0	.5889-01	.7192-01	.6734-01	.9308	.1428-02	.1633-02	.9882	7.525	561.7
43	10.000	.10000+00	45.000	.1482	.1809	.1809	.9000	.3594-02	.4386-02	2.496	15.33	559.3
43	14.000	.50000-01	44.000	.1993	.2434	.2434	.9000	.4832-02	.5902-02	3.343	23.07	561.8
43	20.000	.10000+00	207.00	.1912	.2335	.2335	.9000	.4635-02	.5662-02	3.205	18.62	562.2
43	20.000	.15000	211.00	.1278	.1558	.1558	.9000	.3099-02	.3779-02	2.160	13.66	556.6
43	22.000	.50000-01	202.00	.2287	.2791	.2791	.9000	.5546-02	.6769-02	3.848	21.26	559.8
43	24.000	.20000	48.000	.9225-01	.1126	.1126	.9000	.2237-02	.2730-02	1.555	13.75	558.7
43	24.500	.10000+00	208.00	.1857	.2268	.2268	.9000	.4503-02	.5499-02	3.115	19.65	561.8
43	25.500	.15000	212.00	.1277	.1559	.1559	.9000	.3096-02	.3782-02	2.141	18.91	562.0
43	31.500	.20000	215.00	.9059-01	.1106	.1106	.9000	.2197-02	.2683-02	1.519	15.25	562.0
43	35.000	.50000-01	203.00	.1446	.1760	.1760	.9000	.3507-02	.4269-02	2.462	15.61	551.5
43	35.000	.20000	216.00	.9237-01	.1128	.1128	.9000	.2240-02	.2735-02	1.551	15.58	561.1
43	39.000	.10000+00	209.00	.7270-01	.8829-01	.8829-01	.9000	.1763-02	.2141-02	1.252	7.968	543.7
43	40.000	.15000	213.00	.1365	.1668	.1668	.9000	.3311-02	.4044-02	2.290	16.85	562.1
43	40.000	.20000	217.00	.8201-01	.1002	.1002	.9000	.1989-02	.2430-02	1.374	15.16	562.9
43	42.500	.50000-01	204.00	.6074-01	.7372-01	.7372-01	.9000	.1473-02	.1788-02	1.048	7.085	541.9
43	45.500	.15000	214.00	.6373-01	.7739-01	.7739-01	.9000	.1546-02	.1877-02	1.098	6.438	543.4
43	51.000	.20000	218.00	.3210-01	.3895-01	.3895-01	.9000	.7785-03	.9446-03	.5547	3.536	541.1
43	60.000	.50000-01	205.00	.1767-01	.2140-01	.2140-01	.9000	.4284-03	.5190-03	.3078	2.087	535.2
43	67.500	.20000	219.00	.1747-01	.2119-01	.2119-01	.9000	.4236-03	.5137-03	.3027	2.254	539.0
43	96.500	.20000	1220.0	.1521-01	.1845-01	.1845-01	.9000	.3689-03	.4473-03	.2637	1.901	538.7
42	114.00	.40000	388.00	.1457-01	.1765-01	.1766-01	.9000	.3527-03	.4275-03	.2523	1.820	536.2
42	114.00	.50000	390.00	.1314-01	.1592-01	.1592-01	.9000	.3181-03	.3853-03	.2282	1.419	534.3
42	114.00	.70000	394.00	.6054-03	.7325-03	.7325-03	.9000	.1465-04	.1773-04	.1057-01	.6971-01	530.5
42	157.50	.40000	223.00	.4764-02	.5768-02	.5768-02	.9000	.1153-03	.1396-03	.8293-01	.5466	532.4
42	157.50	.50000	225.00	.2799-02	.3389-02	.3389-02	.9000	.6773-04	.8203-04	.4865-01	.3205	533.4
42	157.50	.70000	229.00	.4678-02	.5659-02	.5659-02	.9000	.1132-03	.1370-03	.8177-01	.6117	529.5
42	157.50	.80000	231.00	.3860-02	.4667-02	.4667-02	.9000	.9342-04	.1129-03	.6764-01	.4748	527.7
42	180.00	.40000	182.00	.4796-02	.5809-02	.5809-02	.9000	.1161-03	.1406-03	.8335-01	.7180	533.6
42	180.00	.50000	184.00	.5110-02	.6187-02	.6187-02	.9000	.1237-03	.1497-03	.8896-01	.7975	532.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA27)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
42	180.00	.60000	186.00	.3669-02	.4440-02	.4440-02	.9000	.8879-04	.1075-03	.6399-01	.5740	531.0
42	180.00	.70000	188.00	.3257-02	.3941-02	.3941-02	.9000	.7883-04	.9538-04	.5686-01	.5102	530.4
42	180.00	.80000	190.00	.3021-02	.3654-02	.3654-02	.9000	.7312-04	.8843-04	.5286-01	.5160	528.7
42	315.00	.40000	234.00	.1466-02	.1774-02	.1774-02	.9000	.3548-04	.4294-04	.2555-01	.1910	531.5
42	315.00	.50000	236.00	.1900-02	.2299-02	.2299-02	.9000	.4598-04	.5563-04	.3316-01	.2066	530.4
42	315.00	.70000	240.00	.7512-03	.9085-03	.9085-03	.9000	.1818-04	.2199-04	.1314-01	.9835-01	528.8
42	315.00	.80000	242.00	.1948-02	.2355-02	.2355-02	.9000	.4714-04	.5699-04	.3413-01	.2396	527.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 177

OH84B 60-0 FUSELAGE

(R4UA27)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
65	1.997	7.980	40.03	4.032	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07
66	2.012	7.980	40.01	4.024	435.7	1299.	94.54	.4536-01	2.022	3804.	.1295-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
65	.3502-01	.2873-01
66	.3506-01	.2863-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
66	.00000	.00000	1.0000	.4710	.5808	.5149	.9550	.1651-01	.1805-01	11.35	61.13	611.4
66	.00000	.50000-02	2.0000	.5046	.6298	.5180	.9870	.1769-01	.1816-01	11.56	76.55	645.3
66	.00000	.10000-01	3.0000	.4719	.5867	.4842	.9870	.1654-01	.1697-01	10.97	70.83	635.2
66	.00000	.20000-01	4.0000	.3552	.4354	.3700	.9782	.1245-01	.1297-01	8.781	47.71	593.5
65	.00000	.30000-01	5.0000	.2730	.3338	.2891	.9695	.9562-02	.1012-01	6.836	37.25	587.7
65	.00000	.40000-01	6.0000	.2536	.3098	.2716	.9636	.8881-02	.9510-02	6.376	34.80	584.8
65	.00000	.50000-01	7.0000	.2160	.2644	.2336	.9590	.7566-02	.8179-02	5.391	35.57	590.1
65	.00000	.60000-01	8.0000	.2222	.2719	.2418	.9556	.7782-02	.8468-02	5.549	34.53	589.6
65	.00000	.70000-01	9.0000	.1905	.2329	.2086	.9522	.6670-02	.7307-02	4.765	32.44	588.4
65	.00000	.80000-01	10.000	.1590	.1944	.1751	.9496	.5570-02	.6132-02	3.993	27.22	585.9
65	.00000	.90000-01	11.000	.1515	.1848	.1672	.9477	.5306-02	.5857-02	3.837	24.00	579.4
65	.00000	.10000+00	12.000	.1402	.1709	.1553	.9458	.4910-02	.5439-02	3.562	21.10	577.2
65	.00000	.12000	13.000	.1229	.1495	.1367	.9433	.4304-02	.4788-02	3.146	17.28	571.7
65	.00000	.13000	14.000	.1222	.1487	.1362	.9425	.4279-02	.4769-02	3.123	18.05	572.9
65	.00000	.14000	15.000	.1204	.1467	.1344	.9418	.4217-02	.4707-02	3.071	19.25	574.4
65	.00000	.15000	16.000	.1219	.1486	.1362	.9414	.4270-02	.4771-02	3.101	18.88	576.5
65	.00000	.16000	17.000	.1209	.1473	.1353	.9408	.4234-02	.4737-02	3.077	18.74	576.0
65	.00000	.17000	18.000	.1198	.1461	.1343	.9401	.4197-02	.4703-02	3.043	19.05	577.6
65	.00000	.18000	19.000	.1168	.1423	.1310	.9397	.4090-02	.4587-02	2.969	18.59	576.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA27)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
65	.00000	.20000	21.000	.1128	.1374	.1268	.9384	.3950-02	.4439-02	2.874	18.01	575.1
65	.00000	.25000	23.000	.1027	.1252	.1160	.9363	.3596-02	.4061-02	2.608	16.32	577.5
65	.00000	.30000	24.000	.9763-01	.1191	.1103	.9363	.3419-02	.3862-02	2.474	15.48	579.1
65	.00000	.35000	25.000	.9962-01	.1216	.1126	.9363	.3489-02	.3942-02	2.519	15.74	580.8
65	.00000	.40000	26.000	.9857-01	.1204	.1115	.9363	.3452-02	.3903-02	2.479	15.91	584.7
65	.00000	.45000	1027.0	.8238-01	.1007	.9317-01	.9363	.2885-02	.3263-02	2.069	13.68	585.5
65	.00000	.50000	1028.0	.7401-01	.9037-01	.8366-01	.9363	.2592-02	.2930-02	1.865	12.73	583.1
65	.00000	.55000	1029.0	.9329-01	.1143	.1057	.9363	.3267-02	.3700-02	2.319	16.80	593.0
65	.00000	.60000	1030.0	.7112-01	.8699-01	.8048-01	.9363	.2491-02	.2819-02	1.778	12.91	588.8
65	.00000	.65000	1031.0	.6425-01	.7857-01	.7270-01	.9363	.2250-02	.2546-02	1.607	11.67	588.3
65	.00000	.70000	1032.0	.6595-01	.8049-01	.7453-01	.9363	.2310-02	.2610-02	1.666	12.56	581.3
65	.00000	.75000	1033.0	.6464-01	.7885-01	.7302-01	.9363	.2264-02	.2557-02	1.636	11.94	579.6
65	.00000	.80000	1034.0	.7189-01	.8770-01	.8122-01	.9363	.2518-02	.2845-02	1.820	13.28	579.7
65	.00000	.85000	1035.0	.7353-01	.8968-01	.8399-01	.9309	.2575-02	.2941-02	1.864	14.07	579.0
65	10.000	.10000+00	45.000	.1472	.1793	.1793	.9000	.5154-02	.6279-02	3.746	22.81	575.8
65	14.000	.50000-01	44.000	.1975	.2409	.2409	.9000	.6917-02	.8436-02	5.004	34.23	579.2
65	20.000	.10000+00	207.00	.1917	.2340	.2340	.9000	.6713-02	.8194-02	4.839	27.84	581.8
65	20.000	.15000	211.00	.1265	.1540	.1540	.9000	.4432-02	.5393-02	3.237	20.32	572.2
65	22.000	.50000-01	202.00	.2311	.2818	.2818	.9000	.8092-02	.9867-02	5.859	32.07	578.6
65	24.000	.20000	48.000	.9160-01	.1116	.1116	.9000	.3208-02	.3909-02	2.331	20.44	576.0
65	24.500	.10000+00	208.00	.1880	.2294	.2294	.9000	.6583-02	.8034-02	4.749	29.67	581.2
65	25.500	.15000	212.00	.1258	.1536	.1536	.9000	.4407-02	.5378-02	3.179	27.81	581.2
65	31.500	.20000	215.00	.9066-01	.1106	.1106	.9000	.3175-02	.3874-02	2.293	22.80	580.4
65	35.000	.50000-01	203.00	.1462	.1775	.1775	.9000	.5119-02	.6217-02	3.777	23.79	564.8
65	35.000	.20000	216.00	.9272-01	.1131	.1131	.9000	.3247-02	.3960-02	2.351	23.39	578.8
65	39.000	.10000+00	209.00	.7366-01	.8918-01	.8918-01	.9000	.2580-02	.3123-02	1.931	12.22	554.3
65	40.000	.15000	213.00	.1409	.1720	.1720	.9000	.4935-02	.6023-02	3.560	25.95	581.3
65	40.000	.20000	217.00	.8458-01	.1032	.1032	.9000	.2962-02	.3615-02	2.137	23.37	581.2
65	42.500	.50000-01	204.00	.6110-01	.7391-01	.7391-01	.9000	.2140-02	.2589-02	1.608	10.82	551.0
65	45.500	.15000	214.00	.6338-01	.7669-01	.7669-01	.9000	.2220-02	.2686-02	1.667	9.732	551.9
65	51.000	.20000	218.00	.3220-01	.3893-01	.3893-01	.9000	.1128-02	.1363-02	.8504	5.400	548.6
65	60.000	.50000-01	205.00	.1688-01	.2037-01	.2037-01	.9000	.5913-03	.7135-03	.4497	3.039	542.2
65	67.500	.20000	219.00	.1743-01	.2106-01	.2106-01	.9000	.6105-03	.7376-03	.4615	3.423	546.7
65	96.500	.20000	1220.0	.1615-01	.1951-01	.1951-01	.9000	.5657-03	.6832-03	.4283	3.076	545.6
66	114.00	.40000	388.00	.1489-01	.1798-01	.1798-01	.9000	.5221-03	.6305-03	.3945	2.837	543.0
66	114.00	.50000	390.00	.1663-01	.2007-01	.2007-01	.9000	.5829-03	.7037-03	.4410	2.732	542.1
66	114.00	.70000	394.00	.8586-03	.1035-02	.1035-02	.9000	.3010-04	.3627-04	.2296-01	.1511	535.7
66	157.50	.40000	223.00	.7447-02	.8981-02	.8981-02	.9000	.2611-03	.3148-03	.1985	1.304	538.3
66	157.50	.50000	225.00	.6030-02	.7270-02	.7270-02	.9000	.2114-03	.2548-03	.1609	1.058	537.3
66	157.50	.70000	229.00	.5397-02	.6501-02	.6501-02	.9000	.1892-03	.2279-03	.1446	1.080	534.1
66	157.50	.80000	231.00	.4685-02	.5641-02	.5641-02	.9000	.1642-03	.1977-03	.1259	.8814	532.4
66	180.00	.40000	182.00	.6942-02	.8375-02	.8375-02	.9000	.2433-03	.2936-03	.1847	1.586	539.8
66	180.00	.50000	184.00	.6240-02	.7526-02	.7526-02	.9000	.2188-03	.2638-03	.1663	1.486	538.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 179

(R4UA27)

OH84B 60-0 FUSELAGE

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
66	180.00	.60000	186.00	.4991-02	.6017-02	.6017-02	.9000	.1749-03	.2109-03	.1332	1.191	537.2
66	180.00	.70000	188.00	.4048-02	.4878-02	.4878-02	.9000	.1419-03	.1710-03	.1082	.9685	535.9
66	180.00	.80000	190.00	.3216-02	.3873-02	.3873-02	.9000	.1127-03	.1358-03	.8627-01	.8402	533.4
66	315.00	.40000	234.00	.1459-02	.1759-02	.1759-02	.9000	.5115-04	.6165-04	.3898-01	.2906	536.6
66	315.00	.50000	236.00	.1826-02	.2201-02	.2201-02	.9000	.6401-04	.7715-04	.4883-01	.3034	535.9
66	315.00	.70000	240.00	.1105-02	.1331-02	.1331-02	.9000	.3875-04	.4867-04	.2966-01	.2214	533.3
66	315.00	.80000	242.00	.2056-02	.2475-02	.2475-02	.9000	.7208-04	.8677-04	.5528-01	.3873	531.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 180

OH84B 60-0 FUSELAGE

(R4UA28)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
30	X10 6	7.900	40.08	9.969	101.8	1250.	92.69	.1131-01	.4940	3729.	.3293-03	.7459-07
31	.5116	7.900	40.08	9.971	100.7	1251.	92.77	.1119-01	.4887	3730.	.3255-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
30	.1721-01	.5655-01
31	.1712-01	.5688-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
30	.00000	.00000	1.0000	.4710	.5778	.5139	.9548	.8107-02	.8845-02	5.481	30.08	573.6
30	.00000	.50000-02	2.0000	.4959	.6109	.5083	.9870	.8536-02	.8750-02	5.666	38.63	585.8
30	.00000	.10000-01	3.0000	.4636	.5702	.4751	.9870	.7980-02	.8179-02	5.335	35.35	581.2
30	.00000	.20000-01	4.0000	.3489	.4265	.3632	.9783	.6005-02	.6251-02	4.124	22.75	563.0
31	.00000	.30000-01	5.0000	.2751	.3357	.2910	.9696	.4710-02	.4983-02	3.262	18.04	558.0
31	.00000	.40000-01	6.0000	.2543	.3102	.2722	.9637	.4355-02	.4660-02	3.023	16.73	556.5
31	.00000	.50000-01	7.0000	.2216	.2705	.2393	.9591	.3794-02	.4098-02	2.624	17.58	559.1
31	.00000	.60000-01	8.0000	.2275	.2777	.2472	.9557	.3895-02	.4233-02	2.694	17.02	558.9
31	.00000	.70000-01	9.0000	.1939	.2367	.2122	.9523	.3320-02	.3634-02	2.297	15.87	559.0
31	.00000	.80000-01	10.0000	.1638	.1999	.1802	.9497	.2805-02	.3085-02	1.946	13.46	557.0
31	.00000	.90000-01	11.0000	.1551	.1890	.1712	.9478	.2656-02	.2931-02	1.852	11.73	553.6
31	.00000	.10000+00	12.0000	.1430	.1742	.1584	.9459	.2449-02	.2711-02	1.710	10.25	552.3
31	.00000	.12000	13.0000	.1268	.1543	.1410	.9434	.2171-02	.2415-02	1.522	8.454	549.5
31	.00000	.13000	14.0000	.1280	.1558	.1426	.9426	.2192-02	.2442-02	1.536	8.978	549.9
31	.00000	.14000	15.0000	.1229	.1496	.1371	.9419	.2104-02	.2348-02	1.473	9.349	550.4
31	.00000	.15000	16.0000	.1281	.1560	.1431	.9415	.2193-02	.2450-02	1.533	9.454	551.5
31	.00000	.16000	17.0000	.1242	.1512	.1389	.9409	.2127-02	.2378-02	1.488	9.177	551.0
31	.00000	.17000	18.0000	.1205	.1467	.1349	.9402	.2063-02	.2310-02	1.441	9.139	551.9
31	.00000	.18000	19.0000	.1199	.1460	.1344	.9398	.2054-02	.2301-02	1.436	9.107	551.3

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OH4B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH4B 60-0 FUSELAGE

(R4UA28)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R	H(TAW) BTU/R	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
						TAW/TO		FT2SEC	FT2SEC	FT2SEC		
31	.00000	.20000	21.000	.1159	.1411	.1302	.9385	.1984-02	.2229-02	1.391	8.826	549.9
31	.00000	.25000	23.000	.1050	.1278	.1184	.9354	.1797-02	.2028-02	1.257	7.972	551.3
31	.00000	.30000	24.000	.1018	.1240	.1149	.9364	.1743-02	.1967-02	1.218	7.720	552.1
31	.00000	.35000	25.000	.1028	.1252	.1160	.9364	.1760-02	.1987-02	1.230	7.795	552.2
31	.00000	.40000	26.000	.9923-01	.1209	.1120	.9364	.1699-02	.1918-02	1.185	7.730	553.2
31	.00000	.45000	1027.0	.8816-01	.1074	.9953-01	.9364	.1510-02	.1704-02	1.052	7.067	553.8
31	.00000	.50000	1028.0	.8660-01	.1055	.9775-01	.9364	.1483-02	.1674-02	1.035	7.171	552.9
31	.00000	.55000	1029.0	.7994-01	.9747-01	.9027-01	.9364	.1369-02	.1546-02	.9517	7.027	555.4
31	.00000	.60000	1030.0	.7489-01	.9129-01	.8456-01	.9364	.1282-02	.1448-02	.8932	6.599	554.2
31	.00000	.65000	1031.0	.6920-01	.8434-01	.7813-01	.9364	.1185-02	.1338-02	.8258	6.103	553.7
31	.00000	.70000	1032.0	.6966-01	.8491-01	.7865-01	.9364	.1193-02	.1347-02	.8308	6.350	554.1
31	.00000	.75000	1033.0	.6590-01	.8029-01	.7438-01	.9364	.1128-02	.1274-02	.7876	5.823	552.7
31	.00000	.80000	1034.0	.6671-01	.8124-01	.7528-01	.9364	.1142-02	.1289-02	.7987	5.910	551.4
31	.00000	.85000	1035.0	.6319-01	.7693-01	.7208-01	.9310	.1082-02	.1234-02	.7580	5.805	550.2
31	10.000	.10000+00	45.000	.1433	.1744	.1744	.9000	.2454-02	.2987-02	1.719	10.60	550.1
31	14.000	.50000-01	44.000	.1868	.2274	.2274	.9000	.3198-02	.3894-02	2.235	15.50	551.7
31	20.000	.10000+00	207.00	.1741	.2120	.2120	.9000	.2981-02	.3630-02	2.083	12.16	551.9
31	20.000	.15000	211.00	.1212	.1474	.1474	.9000	.2075-02	.2524-02	1.457	9.257	548.3
31	22.000	.50000-01	202.00	.2031	.2471	.2471	.9000	.3477-02	.4231-02	2.438	13.54	549.4
31	24.000	.20000	48.000	.8627-01	.1050	.1050	.9000	.1477-02	.1798-02	1.036	9.211	549.1
31	24.500	.10000+00	208.00	.1605	.1954	.1954	.9000	.2748-02	.3346-02	1.924	12.20	550.7
31	25.500	.15000	212.00	.1118	.1362	.1362	.9000	.1915-02	.2332-02	1.339	11.88	551.6
31	31.500	.20000	215.00	.8014-01	.9758-01	.9758-01	.9000	.1372-02	.1671-02	.9606	9.695	550.7
31	35.000	.50000-01	203.00	.1137	.1381	.1381	.9000	.1947-02	.2365-02	1.380	8.792	542.1
31	35.000	.20000	216.00	.7815-01	.9512-01	.9512-01	.9000	.1338-02	.1629-02	.9379	9.471	549.7
31	39.000	.10000+00	209.00	.5322-01	.6455-01	.6455-01	.9000	.9113-03	.1105-02	.6491	4.143	538.4
31	40.000	.15000	213.00	.1077	.1311	.1311	.9000	.1844-02	.2245-02	1.292	9.562	550.2
31	40.000	.20000	217.00	.7969-01	.9703-01	.9703-01	.9000	.1364-02	.1661-02	.9549	10.60	550.8
31	42.500	.50000-01	204.00	.4463-01	.5411-01	.5411-01	.9000	.7642-03	.9265-03	.5456	3.697	536.7
31	45.500	.15000	214.00	.4417-01	.5358-01	.5358-01	.9000	.7562-03	.9174-03	.5385	3.166	538.6
31	51.000	.20000	218.00	.2136-01	.2591-01	.2591-01	.9000	.3658-03	.4436-03	.2608	1.666	537.5
31	60.000	.50000-01	205.00	.1505-01	.1823-01	.1823-01	.9000	.2577-03	.3121-03	.1848	1.254	533.6
31	67.500	.20000	219.00	.1070-01	.1297-01	.1297-01	.9000	.1832-03	.2221-03	.1308	.9749	536.7
31	96.500	.20000	1220.0	.9431-02	.1143-01	.1143-01	.9000	.1615-03	.1958-03	.1154	.8322	536.3
30	114.00	.40000	388.00	.5750-02	.6967-02	.6967-02	.9000	.9898-04	.1199-03	.7082-01	.5115	534.1
30	114.00	.50000	390.00	.2262-02	.2739-02	.2739-02	.9000	.3893-04	.4714-04	.2793-01	.1739	532.2
30	114.00	.70000	394.00	.4495-03	.5442-03	.5442-03	.9000	.7738-05	.9367-05	.5561-02	.3668-01	531.0
30	157.50	.40000	223.00	.4007-02	.4853-02	.4853-02	.9000	.6897-04	.8353-04	.4944-01	.3258	532.8
30	157.50	.50000	225.00	.3152-02	.3818-02	.3818-02	.9000	.5426-04	.6573-04	.3887-01	.2561	533.3
30	157.50	.70000	229.00	.3910-02	.4732-02	.4732-02	.9000	.6730-04	.8146-04	.4840-01	.3619	530.5
30	157.50	.80000	231.00	.3388-02	.4099-02	.4099-02	.9000	.5832-04	.7055-04	.4205-01	.2951	528.7
30	180.00	.40000	182.00	.2105-02	.2550-02	.2550-02	.9000	.3623-04	.4389-04	.2595-01	.2236	533.4
30	180.00	.50000	184.00	.1780-02	.2155-02	.2155-02	.9000	.3064-04	.3710-04	.2198-01	.1971	532.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA28)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
30	180.00	.60000	186.00	.2786-02	.3374-02	.3374-02	.9000	.4796-04	.5807-04	.3442-01	.3086	532.0
30	180.00	.70000	188.00	.3656-02	.4427-02	.4427-02	.9000	.6293-04	.7619-04	.4518-01	.4051	531.8
30	180.00	.80000	190.00	.3523-02	.4263-02	.4263-02	.9000	.6064-04	.7338-04	.4364-01	.4257	530.0
30	315.00	.40000	234.00	.1283-02	.1553-02	.1553-02	.9000	.2208-04	.2674-04	.1585-01	.1184	532.1
30	315.00	.50000	236.00	.1389-02	.1681-02	.1681-02	.9000	.2391-04	.2894-04	.1718-01	.1070	531.2
30	315.00	.70000	240.00	.1802-02	.2181-02	.2181-02	.9000	.3102-04	.3755-04	.2232-01	.1669	530.2
30	315.00	.80000	242.00	.3019-02	.3652-02	.3652-02	.9000	.5197-04	.6287-04	.3746-01	.2628	528.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA28)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
45	1.021	7.940	39.96	10.01	208.6	1261.	92.64	.2244-01	.9903	3746.	.6538-03	.7454-07
46	1.011	7.940	40.01	10.10	207.3	1264.	92.86	.2230-01	.9842	3751.	.6482-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
45	.2441-01	.4017-01
46	.2434-01	.4035-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
45	.00000	.00000	1.0000	.4662	.5732	.5089	.9551	.1138-01	.1242-01	7.679	41.89	585.7
45	.00000	.50000-02	2.0000	.4913	.6088	.5039	.9870	.1199-01	.1230-01	7.833	52.84	607.4
45	.00000	.10000-01	3.0000	.4601	.5687	.4718	.9870	.1123-01	.1152-01	7.420	48.71	600.0
45	.00000	.20000-01	4.0000	.3427	.4194	.3569	.9782	.8364-02	.8712-02	5.766	31.68	571.3
46	.00000	.30000-01	5.0000	.2724	.3329	.2884	.9695	.6631-02	.7020-02	4.614	25.40	567.8
46	.00000	.40000-01	6.0000	.2509	.3064	.2687	.9635	.6108-02	.6540-02	4.264	23.49	565.6
46	.00000	.50000-01	7.0000	.2186	.2673	.2363	.9590	.5322-02	.5752-02	3.694	24.62	569.6
46	.00000	.60000-01	8.0000	.2239	.2737	.2436	.9556	.5451-02	.5930-02	3.786	23.80	569.2
46	.00000	.70000-01	9.0000	.1896	.2317	.2077	.9522	.4616-02	.5055-02	3.212	22.10	567.9
46	.00000	.80000-01	10.000	.1599	.1953	.1760	.9495	.3893-02	.4284-02	2.719	18.73	565.2
46	.00000	.90000-01	11.000	.1515	.1846	.1672	.9477	.3687-02	.4069-02	2.593	16.37	560.4
46	.00000	.10000+00	12.000	.1422	.1733	.1575	.9458	.3461-02	.3834-02	2.436	14.55	559.7
46	.00000	.12000	13.000	.1245	.1515	.1385	.9433	.3029-02	.3371-02	2.145	11.88	555.7
46	.00000	.13000	14.000	.1254	.1526	.1397	.9424	.3052-02	.3402-02	2.158	12.57	556.5
46	.00000	.14000	15.000	.1224	.1490	.1366	.9418	.2978-02	.3325-02	2.103	13.29	557.7
46	.00000	.15000	16.000	.1250	.1524	.1397	.9414	.3044-02	.3401-02	2.145	13.17	558.9
46	.00000	.16000	17.000	.1226	.1493	.1371	.9407	.2983-02	.3338-02	2.104	12.92	558.5
46	.00000	.17000	18.000	.1197	.1459	.1341	.9401	.2913-02	.3264-02	2.051	12.95	559.7
46	.00000	.18000	19.000	.1186	.1445	.1330	.9397	.2887-02	.3237-02	2.033	12.84	559.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA28)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
46	.00000	.20000	21.000	.1148	.1398	.1290	.9384	.2794-02	.3141-02	1.973	12.47	557.6
46	.00000	.25000	23.000	.1032	.1258	.1166	.9362	.2513-02	.2838-02	1.770	11.18	559.4
46	.00000	.30000	24.000	.9936-01	.1211	.1122	.9362	.2419-02	.2731-02	1.703	10.76	559.5
46	.00000	.35000	25.000	.1000+00	.1219	.1129	.9362	.2434-02	.2749-02	1.713	10.81	560.1
46	.00000	.40000	26.000	.9789-01	.1194	.1106	.9362	.2383-02	.2692-02	1.671	10.85	562.2
46	.00000	.45000	1027.0	.8244-01	.1006	.9316-01	.9362	.2007-02	.2268-02	1.406	9.403	563.0
46	.00000	.50000	1028.0	.8177-01	.9964-01	.9233-01	.9362	.1990-02	.2248-02	1.402	9.689	559.1
46	.00000	.55000	1029.0	.7767-01	.9486-01	.8782-01	.9362	.1891-02	.2138-02	1.318	9.681	566.3
46	.00000	.60000	1030.0	.7322-01	.8939-01	.8277-01	.9362	.1782-02	.2015-02	1.245	9.145	565.3
46	.00000	.65000	1031.0	.6866-01	.8382-01	.7761-01	.9362	.1671-02	.1889-02	1.168	8.582	564.9
46	.00000	.70000	1032.0	.6907-01	.8434-01	.7808-01	.9362	.1681-02	.1901-02	1.173	8.915	565.8
46	.00000	.75000	1033.0	.6353-01	.7755-01	.7181-01	.9362	.1546-02	.1748-02	1.081	7.942	564.8
46	.00000	.80000	1034.0	.6463-01	.7883-01	.7302-01	.9362	.1573-02	.1777-02	1.103	8.118	562.3
46	.00000	.85000	1035.0	.6231-01	.7597-01	.7116-01	.9308	.1517-02	.1732-02	1.066	8.121	560.8
46	10.000	.10000+00	45.000	.1418	.1727	.1727	.9000	.3452-02	.4204-02	2.439	15.00	557.1
46	14.000	.50000-01	44.000	.1821	.2218	.2218	.9000	.4432-02	.5400-02	3.125	21.59	558.6
46	20.000	.10000+00	207.00	.1693	.2063	.2063	.9000	.4122-02	.5021-02	2.908	16.93	558.2
46	20.000	.15000	211.00	.1191	.1449	.1449	.9000	.2899-02	.3527-02	2.058	13.04	553.6
46	22.000	.50000-01	202.00	.1984	.2415	.2415	.9000	.4830-02	.5878-02	3.421	18.94	555.3
46	24.000	.20000	48.000	.8525-01	.1038	.1038	.9000	.2075-02	.2526-02	1.469	13.02	555.6
46	24.500	.10000+00	208.00	.1579	.1923	.1923	.9000	.3844-02	.4680-02	2.718	17.20	556.5
46	25.500	.15000	212.00	.1087	.1324	.1324	.9000	.2645-02	.3222-02	1.868	16.53	557.5
46	31.500	.20000	215.00	.7878-01	.9595-01	.9595-01	.9000	.1918-02	.2336-02	1.354	13.62	557.4
46	35.000	.50000-01	203.00	.1124	.1365	.1365	.9000	.2737-02	.3322-02	1.965	12.49	545.9
46	35.000	.20000	216.00	.7710-01	.9385-01	.9385-01	.9000	.1877-02	.2284-02	1.328	13.37	555.8
46	39.000	.10000+00	209.00	.5213-01	.6314-01	.6314-01	.9000	.1269-02	.1537-02	.9193	5.866	539.2
46	40.000	.15000	213.00	.1061	.1292	.1292	.9000	.2583-02	.3144-02	1.830	13.51	555.4
46	40.000	.20000	217.00	.6843-01	.8330-01	.8330-01	.9000	.1566-02	.2028-02	1.179	13.05	556.1
46	42.500	.50000-01	204.00	.4264-01	.5162-01	.5162-01	.9000	.1038-02	.1256-02	.7538	5.106	537.3
46	45.500	.15000	214.00	.4243-01	.5138-01	.5138-01	.9000	.1033-02	.1251-02	.7494	4.407	538.1
46	51.000	.20000	218.00	.1963-01	.2376-01	.2376-01	.9000	.4778-03	.5784-03	.3472	2.218	537.0
46	60.000	.50000-01	205.00	.1385-01	.1675-01	.1675-01	.9000	.3371-03	.4077-03	.2461	1.671	533.6
46	67.500	.20000	219.00	.1064-01	.1288-01	.1288-01	.9000	.2590-03	.3135-03	.1885	1.405	536.1
46	96.500	.20000	1220.0	.9495-02	.1149-01	.1149-01	.9000	.2311-03	.2797-03	.1682	1.214	535.9
45	114.00	.40000	388.00	.6771-02	.8193-02	.8193-02	.9000	.1653-03	.2000-03	.1200	.8665	534.5
45	114.00	.50000	390.00	.2264-02	.2737-02	.2737-02	.9000	.5525-04	.6680-04	.4028-01	.2508	531.6
45	114.00	.70000	394.00	.3507-03	.4238-03	.4238-03	.9000	.8559-05	.1034-04	.6253-02	.4127-01	530.0
45	157.50	.40000	223.00	.3827-02	.4628-02	.4628-02	.9000	.9341-04	.1129-03	.6806-01	.4487	532.0
45	157.50	.50000	225.00	.3301-02	.3993-02	.3993-02	.9000	.8057-04	.9746-04	.5859-01	.3860	533.4
45	157.50	.70000	229.00	.5362-02	.6480-02	.6480-02	.9000	.1309-03	.1582-03	.9567-01	.7157	529.7
45	157.50	.80000	231.00	.5106-02	.6167-02	.6167-02	.9000	.1246-03	.1505-03	.9133-01	.6410	527.9
45	180.00	.40000	182.00	.3913-02	.4734-02	.4734-02	.9000	.9552-04	.1155-03	.6948-01	.5986	533.3
45	180.00	.50000	184.00	.1639-02	.1981-02	.1981-02	.9000	.4000-04	.4835-04	.2918-01	.2617	531.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 185

OH84B 60-0 FUSELAGE

(R4UA28)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
45	180.00	.60000	186.00	.5641-02	.6821-02	.6821-02	.9000	.1377-03	.1665-03	.1003	.8996	532.0
45	180.00	.70000	188.00	.3600-02	.4352-02	.4352-02	.9000	.8787-04	.1062-03	.6414-01	.5754	530.8
45	180.00	.80000	190.00	.7201-02	.8702-02	.8702-02	.9000	.1758-03	.2124-03	.1285	1.254	529.7
45	315.00	.40000	234.00	.1558-02	.1884-02	.1884-02	.9000	.3804-04	.4599-04	.2775-01	.2074	531.2
45	315.00	.50000	236.00	.1685-02	.2037-02	.2037-02	.9000	.4113-04	.4971-04	.3005-01	.1873	530.1
45	315.00	.70000	240.00	.1675-02	.2023-02	.2023-02	.9000	.4088-04	.4939-04	.2992-01	.2239	528.8
45	315.00	.80000	242.00	.3262-02	.3940-02	.3940-02	.9000	.7962-04	.9616-04	.5834-01	.4095	527.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 186

OH84B 60-0 FUSELAGE

(R4UA28)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
58	1.996	7.980	40.01	10.01	434.6	1304.	94.91	.4524-01	2.017	3811.	.1287-02	.7637-07
59	1.995	7.980	40.01	10.00	433.9	1303.	94.84	.4517-01	2.014	3810.	.1286-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
58	.3503-01	.2873-01
59	.3500-01	.2874-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
58	.00000	.00000	1.0000	.4661	.5747	.5095	.9550	.1633-01	.1785-01	11.27	60.64	613.5
58	.00000	.50000-02	2.0000	.4822	.6016	.4950	.9870	.1689-01	.1734-01	11.10	73.46	646.7
58	.00000	.10000-01	3.0000	.4548	.5654	.4667	.9870	.1593-01	.1635-01	10.62	68.46	637.3
58	.00000	.20000-01	4.0000	.3450	.4211	.3594	.9782	.1209-01	.1259-01	8.541	46.33	597.1
59	.00000	.30000-01	5.0000	.2720	.3323	.2879	.9695	.9520-02	.1009-01	6.835	37.30	584.7
59	.00000	.40000-01	6.0000	.2490	.3039	.2666	.9635	.8715-02	.9330-02	6.283	34.34	581.8
59	.00000	.50000-01	7.0000	.2157	.2638	.2332	.9589	.7551-02	.8162-02	5.398	35.65	587.9
59	.00000	.60000-01	8.0000	.2213	.2705	.2407	.9556	.7745-02	.8426-02	5.540	34.51	587.3
59	.00000	.70000-01	9.0000	.1883	.2302	.2063	.9522	.6593-02	.7220-02	4.727	32.23	585.7
59	.00000	.80000-01	10.000	.1598	.1951	.1759	.9495	.5593-02	.6156-02	4.023	27.46	583.3
59	.00000	.90000-01	11.000	.1518	.1850	.1676	.9477	.5314-02	.5865-02	3.860	24.17	576.4
59	.00000	.10000+00	12.000	.1410	.1717	.1562	.9458	.4937-02	.5466-02	3.598	21.34	573.8
59	.00000	.12000	13.000	.1245	.1514	.1385	.9433	.4359-02	.4846-02	3.201	17.61	568.2
59	.00000	.13000	14.000	.1238	.1505	.1379	.9424	.4332-02	.4826-02	3.175	18.38	569.7
59	.00000	.14000	15.000	.1225	.1490	.1366	.9418	.4287-02	.4783-02	3.134	19.67	571.6
59	.00000	.15000	16.000	.1254	.1527	.1401	.9414	.4390-02	.4904-02	3.200	19.51	573.6
59	.00000	.16000	17.000	.1224	.1490	.1369	.9407	.4284-02	.4792-02	3.126	19.07	573.0
59	.00000	.17000	18.000	.1206	.1469	.1351	.9401	.4223-02	.4730-02	3.074	19.27	574.6
59	.00000	.18000	19.000	.1183	.1440	.1326	.9396	.4139-02	.4640-02	3.017	18.92	573.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 187

OH84B 60-0 FUSELAGE

(R4UA29)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
59	.00000	.20000	21.000	.1141	.1389	.1282	.9384	.3994-02	.4487-02	2.919	18.32	571.9
59	.00000	.25000	23.000	.1033	.1257	.1165	.9362	.3614-02	.4079-02	2.633	16.51	574.1
59	.00000	.30000	24.000	.9947-01	.1212	.1123	.9362	.3481-02	.3930-02	2.532	15.87	575.3
59	.00000	.35000	25.000	.1003	.1222	.1133	.9362	.3512-02	.3965-02	2.553	15.99	575.7
59	.00000	.40000	26.000	.9659-01	.1178	.1091	.9362	.3381-02	.3820-02	2.441	15.71	580.5
59	.00000	.45000	1027.0	.8369-01	.1021	.9458-01	.9362	.2929-02	.3310-02	2.114	14.01	581.0
59	.00000	.50000	1028.0	.7695-01	.9391-01	.8697-01	.9362	.2693-02	.3044-02	1.943	13.27	581.4
59	.00000	.55000	1029.0	.1051	.1287	.1190	.9362	.3680-02	.4166-02	2.622	19.03	590.1
59	.00000	.60000	1030.0	.7493-01	.9156-01	.8475-01	.9362	.2623-02	.2966-02	1.881	13.68	585.4
59	.00000	.65000	1031.0	.7043-01	.8605-01	.7965-01	.9362	.2465-02	.2788-02	1.768	12.86	585.3
59	.00000	.70000	1032.0	.7237-01	.8825-01	.8175-01	.9362	.2533-02	.2861-02	1.834	13.85	578.5
59	.00000	.75000	1033.0	.6630-01	.8078-01	.7486-01	.9362	.2321-02	.2620-02	1.686	12.32	576.1
59	.00000	.80000	1034.0	.7061-01	.8601-01	.7972-01	.9362	.2471-02	.2790-02	1.798	13.14	575.2
59	.00000	.85000	1035.0	.7068-01	.8608-01	.8067-01	.9308	.2474-02	.2824-02	1.801	13.63	574.6
59	10.000	.10000+00	45.000	.1412	.1718	.1718	.9000	.4942-02	.6012-02	3.615	22.07	571.1
59	14.000	.50000-01	44.000	.1830	.2229	.2229	.9000	.6405-02	.7803-02	4.658	31.92	575.5
59	20.000	.10000+00	207.00	.1708	.2080	.2080	.9000	.5978-02	.7281-02	4.352	25.12	574.7
59	20.000	.15000	211.00	.1180	.1434	.1434	.9000	.4132-02	.5020-02	3.042	19.14	566.5
59	22.000	.50000-01	202.00	.2012	.2447	.2447	.9000	.7043-02	.8566-02	5.159	28.36	570.1
59	24.000	.20000	42.000	.8415-01	.1023	.1023	.9000	.2946-02	.3582-02	2.159	18.99	569.9
59	24.500	.10000+00	208.00	.1583	.1927	.1927	.9000	.5542-02	.6745-02	4.048	25.40	572.2
59	25.500	.15000	212.00	.1087	.1324	.1324	.9000	.3806-02	.4634-02	2.775	24.36	573.6
59	31.500	.20000	215.00	.7811-01	.9506-01	.9506-01	.9000	.2734-02	.3327-02	1.997	19.94	572.2
59	35.000	.50000-01	203.00	.1141	.1381	.1381	.9000	.3994-02	.4835-02	2.989	18.93	554.3
59	35.000	.20000	216.00	.7728-01	.9398-01	.9398-01	.9000	.2705-02	.3290-02	1.992	19.82	569.8
59	39.000	.10000+00	209.00	.5174-01	.6247-01	.6247-01	.9000	.1811-02	.2187-02	1.373	8.739	544.4
59	40.000	.15000	217.00	.1074	.1306	.1306	.9000	.3760-02	.4572-02	2.757	20.22	569.4
59	40.000	.20000	217.00	.6700-01	.8147-01	.8147-01	.9000	.2345-02	.2852-02	1.720	18.92	569.2
59	42.500	.50000-01	204.00	.4354-01	.5255-01	.5255-01	.9000	.1524-02	.1839-02	1.158	7.826	542.6
59	45.500	.15000	214.00	.4361-01	.5265-01	.5265-01	.9000	.1526-02	.1843-02	1.158	6.789	544.0
59	51.000	.20000	218.00	.2026-01	.2444-01	.2444-01	.9000	.7091-03	.8555-03	.5400	3.442	541.2
59	60.000	.50000-01	205.00	.1311-01	.1579-01	.1579-01	.9000	.4589-03	.5528-03	.3521	2.387	535.5
59	67.500	.20000	219.00	.1051-01	.1267-01	.1267-01	.9000	.3678-03	.4435-03	.2807	2.089	539.5
59	96.500	.20000	1220.0	.9949-02	.1200-01	.1200-01	.9000	.3482-03	.4199-03	.2657	1.913	539.7
58	114.00	.40000	388.00	.9342-02	.1126-01	.1126-01	.9000	.3273-03	.3944-03	.2508	1.809	537.3
58	114.00	.50000	390.00	.2048-02	.2465-02	.2465-02	.9000	.7174-04	.8637-04	.5524-01	.3436	533.7
58	114.00	.70000	394.00	.1165-02	.1402-02	.1402-02	.9000	.4081-04	.4910-04	.3152-01	.2079	531.3
58	157.50	.40000	223.00	.4237-02	.5100-02	.5100-02	.9000	.1484-03	.1787-03	.1143	.7529	533.6
58	157.50	.50000	225.00	.6521-02	.7854-02	.7854-02	.9000	.2285-03	.2752-03	.1755	1.155	535.6
58	157.50	.70000	229.00	.6198-02	.7456-02	.7456-02	.9000	.2171-03	.2612-03	.1677	1.254	531.1
58	157.50	.80000	231.00	.8317-02	.1000-01	.1000-01	.9000	.2914-03	.3505-03	.2253	1.579	530.5
58	180.00	.40000	182.00	.6821-02	.8216-02	.8216-02	.9000	.2390-03	.2878-03	.1838	1.580	535.5
58	180.00	.50000	184.00	.3210-02	.3864-02	.3864-02	.9000	.1128-03	.1354-03	.8660-01	.7758	533.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 188

OH84B 60-0 FUSELAGE

(R4UA28)

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
58	180.00	.60000	186.00	.8514-02	.1025-01	.1025-01	.9000	.2983-03	.3592-03	.2295	2.055	534.4
58	180.00	.70000	188.00	.1573-02	.5502-02	.5502-02	.9000	.1602-03	.1928-03	.1236	1.108	532.0
58	180.00	.80000	190.00	.1046-01	.1259-01	.1259-01	.9000	.3664-03	.4410-03	.2822	2.749	533.3
58	315.00	.40000	234.00	.1841-02	.2215-02	.2215-02	.9000	.6448-04	.7760-04	.4973-01	.3715	532.5
58	315.00	.50000	236.00	.2011-02	.2419-02	.2419-02	.9000	.7044-04	.8475-04	.5436-01	.3385	531.9
58	315.00	.70000	240.00	.1428-02	.1717-02	.1717-02	.9000	.5003-04	.6016-04	.3871-01	.2895	529.9
58	315.00	.80000	242.00	.4265-02	.5129-02	.5129-02	.9000	.1494-03	.1797-03	.1157	.8111	529.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 189

OH84B 60-0 FUSELAGE

(R4UA29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BOFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
717	.5091	7.900	39.99	.3469-02	100.3	1242.	92.10	.1115-01	.4869	3717.	.3266-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
717	.1707-01	.5674-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
717	.00000	.80000	1034.0	.6596-01	.8001-01	.7428-01	.9362	.1126-02	.1268-02	.7964	5.943	534.4
717	.00000	.85000	1035.0	.5878-01	.7130-01	.6691-01	.9308	.1003-02	.1142-02	.7092	5.474	534.8
717	.00000	.90000	1036.0	.5768-01	.6995-01	.6579-01	.9297	.9846-03	.1123-02	.6969	5.034	533.9
717	.00000	.92500	1037.0	.4639-01	.5626-01	.5306-01	.9284	.7919-03	.9056-03	.5609	4.653	533.4
717	.00000	.95000	1038.0	.4602-01	.5580-01	.5276-01	.9271	.7855-03	.9007-03	.5561	4.613	533.7
717	.00000	.97500	1039.0	.3783-01	.4588-01	.4350-01	.9258	.6457-03	.7425-03	.4565	4.443	534.6
717	.00000	1.0150	40.000	.1841-01	.2225-01	.2118-01	.9243	.3142-03	.3615-03	.2257	1.694	523.2
717	.00000	1.0300	41.000	.1828-01	.2209-01	.2103-01	.9243	.3120-03	.3590-03	.2242	1.683	523.0
717	.00000	1.0450	42.000	.1711-01	.2068-01	.1969-01	.9243	.2921-03	.3361-03	.2101	1.690	522.5
717	.00000	1.0600	43.000	.1375-01	.1662-01	.1582-01	.9243	.2347-03	.2700-03	.1686	1.433	523.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 190

OH84B 60-0 FUSELAGE

(R4UA29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
715	1.013	7.940	39.99	.3469-02	207.7	1264.	92.86	.2234-01	.9860	3751.	.6495-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) #.0175
715	.2436-01	.4031-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
715	.00000	.80000	1034.0	.6608-01	.8013-01	.7440-01	.9362	.1610-02	.1813-02	1.160	8.618	543.1
715	.00000	.85000	1035.0	.6071-01	.7366-01	.6912-01	.9308	.1479-02	.1684-02	1.063	8.163	545.0
715	.00000	.90000	1036.0	.5989-01	.7260-01	.6829-01	.9297	.1459-02	.1664-02	1.053	7.576	542.0
715	.00000	.92500	1037.0	.4681-01	.5673-01	.5351-01	.9284	.1140-02	.1304-02	.8238	6.806	541.4
715	.00000	.95000	1038.0	.4825-01	.5849-01	.5531-01	.9271	.1176-02	.1348-02	.8486	7.010	541.8
715	.00000	.97500	1039.0	.3819-01	.4634-01	.4392-01	.9258	.9305-03	.1070-02	.6684	5.471	545.3
715	.00000	1.0150	40.000	.1923-01	.2322-01	.2211-01	.9243	.4685-03	.5387-03	.3441	2.575	529.2
715	.00000	1.0300	41.000	.1911-01	.2307-01	.2197-01	.9243	.4656-03	.5353-03	.3424	2.564	528.2
715	.00000	1.0450	42.000	.1778-01	.2146-01	.2044-01	.9243	.4333-03	.4980-03	.3192	2.562	526.9
715	.00000	1.0600	43.000	.1518-01	.1832-01	.1745-01	.9243	.3699-03	.4251-03	.2725	2.311	526.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
709	2.011	7.980	40.04	.1046-01	432.9	1294.	94.18	.4507-01	2.009	3796.	.1292-02	.7579-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
709	.3492-01	.2865-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
709	.00000	.80000	1034.0	.8849-01	.1079	.9994-01	.9363	.3090-02	.3490-02	2.223	16.26	574.3
709	.00000	.85000	1035.0	.1017	.1240	.1161	.9309	.3550-02	.4056-02	2.548	19.26	576.1
709	.00000	.90000	1036.0	.1122	.1368	.1285	.9298	.3920-02	.4486-02	2.821	19.97	574.0
709	.00000	.92500	1037.0	.9503-01	.1159	.1090	.9285	.3319-02	.3808-02	2.389	19.42	573.8
709	.00000	.95000	1038.0	.1059	.1292	.1219	.9272	.3700-02	.4258-02	2.657	21.58	575.6
709	.00000	.97500	1039.0	.1008	.1232	.1165	.9259	.3520-02	.4067-02	2.508	23.84	581.2
709	.00000	1.0150	40.000	.4011-01	.4839-01	.4608-01	.9244	.1401-02	.1609-02	1.059	7.891	537.6
709	.00000	1.0300	41.000	.3438-01	.4146-01	.3948-01	.9244	.1201-02	.1379-02	.9106	6.792	535.3
709	.00000	1.0450	42.000	.3123-01	.3764-01	.3584-01	.9244	.1091-02	.1252-02	.8285	6.626	533.9
709	.00000	1.0600	43.000	.2660-01	.3206-01	.3053-01	.9244	.9288-03	.1066-02	.7051	5.956	534.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 192

OH84B 60-0 FUSELAGE

(R4UA29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
707	3.005	7.990	40.06	.6989-02	671.7	1324.	96.14	.6937-01	3.100	3841.	.1947-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
707	.4355-01	.2339-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
707	.00000	.80000	1034.0	.1913	.2342	.2165	.9363	.8330-02	.9430-02	6.022	43.47	600.8
707	.00000	.85000	1035.0	.2145	.2633	.2460	.9309	.9343-02	.1071-01	6.682	49.71	608.5
707	.00000	.90000	1036.0	.2310	.2831	.2653	.9298	.1006-01	.1155-01	7.235	50.45	604.6
707	.00000	.92500	1037.0	.2001	.2454	.2305	.9285	.8715-02	.1004-01	6.256	50.06	605.8
707	.00000	.95000	1038.0	.2155	.2644	.2490	.9272	.9384-02	.1085-01	6.706	53.57	609.0
707	.00000	.97500	1039.0	.2030	.2501	.2359	.9259	.8841-02	.1028-01	6.212	57.92	621.1
707	.00000	1.0150	40.000	.6469-01	.7814-01	.7436-01	.9244	.2817-02	.3238-02	2.167	16.00	554.6
707	.00000	1.0300	41.000	.5509-01	.6649-01	.6330-01	.9244	.2399-02	.2756-02	1.852	13.70	551.9
707	.00000	1.0450	42.000	.5104-01	.6157-01	.5862-01	.9244	.2223-02	.2553-02	1.720	13.65	549.8
707	.00000	1.0600	43.000	.4532-01	.5469-01	.5206-01	.9244	.1974-02	.2267-02	1.526	12.78	550.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UA30)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
719	.5000	7.900	39.98	.3465-02	100.3	1257.	93.21	.1115-01	.4869	3739.	.3227-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
719	.1711-01	.5715-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
719	.00000	.80000	1034.0	.6676-01	.8079-01	.7508-01	.9362	.1142-02	.1284-02	.8265	6.173	532.9
719	.00000	.85000	1035.0	.5777-01	.6992-01	.6567-01	.9307	.9881-03	.1123-02	.7145	5.518	533.6
719	.00000	.90000	1036.0	.5777-01	.6988-01	.6579-01	.9297	.9883-03	.1125-02	.7167	5.183	531.5
719	.00000	.92500	1037.0	.4543-01	.5494-01	.5186-01	.9284	.7770-03	.8871-03	.5638	4.683	531.1
719	.00000	.95000	1038.0	.4668-01	.5646-01	.5343-01	.9271	.7984-03	.9139-03	.5792	4.810	531.3
719	.00000	.97500	1039.0	.3806-01	.4607-01	.4370-01	.9258	.6510-03	.7475-03	.4705	4.581	533.9
719	.00000	1.0150	40.000	.2314-01	.2796-01	.2661-01	.9242	.3958-03	.4552-03	.2984	2.159	528.0
719	.00000	1.0300	41.000	.2872-01	.3472-01	.3305-01	.9242	.4913-03	.5653-03	.3577	2.678	528.6
719	.00000	1.0450	42.000	.2976-01	.3596-01	.3424-01	.9242	.5091-03	.5856-03	.3709	2.975	528.2
719	.00000	1.0600	43.000	.2649-01	.3201-01	.3047-01	.9242	.4531-03	.5212-03	.3298	2.794	528.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA30)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
713	.9943	7.940	39.99	.6941-02	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/R FT2SEC	STN NO REF(R) =.0175
713	.2417-01	.4069-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
713	.00000	.80000	1034.0	.6311-01	.7658-01	.7109-01	.9362	.1525-02	.1718-02	1.097	8.141	546.2
713	.00000	.85000	1035.0	.5799-01	.7038-01	.6604-01	.9308	.1402-02	.1596-02	1.007	7.729	546.9
713	.00000	.90000	1036.0	.5767-01	.6996-01	.6580-01	.9297	.1394-02	.1590-02	1.004	7.215	545.1
713	.00000	.92500	1037.0	.4511-01	.5470-01	.5159-01	.9284	.1090-02	.1247-02	.7864	6.488	544.4
713	.00000	.95000	1038.0	.4621-01	.5605-01	.5299-01	.9271	.1117-02	.1281-02	.8052	6.642	544.7
713	.00000	.97500	1039.0	.3727-01	.4523-01	.4287-01	.9258	.9008-03	.1036-02	.6478	6.267	546.5
713	.00000	1.0150	40.000	.2140-01	.2587-01	.2462-01	.9243	.5172-03	.5950-03	.3791	2.831	532.8
713	.00000	1.0300	41.000	.2887-01	.3490-01	.3322-01	.9243	.6977-03	.8029-03	.5106	3.811	533.9
713	.00000	1.0450	42.000	.3027-01	.3660-01	.3483-01	.9243	.7316-03	.8419-03	.5356	4.284	533.6
713	.00000	1.0600	43.000	.2646-01	.3200-01	.3045-01	.9243	.6395-03	.7360-03	.4674	3.948	534.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA30)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
711	1.999	7.980	40.06	.1048-01	436.8	1307.	95.13	.4548-01	2.027	3815.	.1290-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
711	.3514-01	.2870-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
711	.00000	.80000	1034.0	.8852-01	.1076	.9980-01	.9363	.3110-02	.3507-02	2.289	16.78	570.6
711	.00000	.85000	1035.0	.9722-01	.1183	.1109	.9309	.3416-02	.3895-02	2.506	18.97	573.2
711	.00000	.90000	1036.0	.1091	.1326	.1246	.9298	.3834-02	.4379-02	2.825	20.04	569.8
711	.00000	.92500	1037.0	.9118-01	.1108	.1044	.9285	.3204-02	.3669-02	2.361	19.23	569.8
711	.00000	.95000	1038.0	.1022	.1243	.1174	.9272	.3592-02	.4126-02	2.638	21.46	572.4
711	.00000	.97500	1039.0	.9701-01	.1183	.1119	.9259	.3409-02	.3933-02	2.475	23.54	580.6
711	.00000	1.0150	40.000	.7509-01	.9102-01	.8654-01	.9244	.2638-02	.3041-02	1.969	14.51	560.3
711	.00000	1.0300	41.000	.8770-01	.1064	.1011	.9244	.3082-02	.3553-02	2.293	16.87	562.5
711	.00000	1.0450	42.000	.9694-01	.1176	.1118	.9244	.3406-02	.3927-02	2.538	20.01	561.8
711	.00000	1.0600	43.000	.8684-01	.1054	.1001	.9244	.3052-02	.3519-02	2.270	18.90	562.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA30)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
705	3.029	7.990	40.07	.3498-02	670.2	1315.	95.49	.6921-01	3.093	3827.	.1956-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
705	.4345-01	.2332-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
705	.00000	.80000	1034.0	.1972	.2420	.2235	.9364	.8567-02	.9712-02	6.081	43.81	604.9
705	.00000	.85000	1035.0	.2190	.2693	.2514	.9310	.9515-02	.1093-01	6.694	49.73	611.2
705	.00000	.90000	1036.0	.2343	.2878	.2694	.9299	.1018-01	.1171-01	7.189	50.04	608.4
705	.00000	.92500	1037.0	.2029	.2494	.2340	.9286	.8815-02	.1017-01	6.216	49.65	609.5
705	.00000	.95000	1038.0	.2178	.2680	.2521	.9273	.9462-02	.1095-01	6.641	52.96	612.8
705	.00000	.97500	1039.0	.2056	.2538	.2392	.9260	.8932-02	.1039-01	6.181	57.58	622.7
705	.00000	1.0150	40.000	.1625	.1984	.1882	.9244	.7060-02	.8179-02	5.129	37.25	588.3
705	.00000	1.0300	41.000	.1756	.2144	.2034	.9244	.7629-02	.8838-02	5.538	40.22	588.7
705	.00000	1.0450	42.000	.1757	.2146	.2036	.9244	.7635-02	.8845-02	5.547	43.17	588.2
705	.00000	1.0600	43.000	.1527	.1865	.1769	.9244	.6633-02	.7687-02	4.805	39.48	590.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA31)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BOFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
725	.4997	7.900	39.98	-.1733-01	100.5	1259.	93.36	.1117-01	.4878	3742.	.3228-03	.7513-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) #.0175
725	.1713-01	.5716-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
725	.00000	.80000	1034.0	.6512-01	.7898-01	.7334-01	.9362	.1115-02	.1256-02	.7994	5.944	541.8
725	.00000	.85000	1035.0	.5890-01	.7145-01	.6706-01	.9307	.1009-02	.1148-02	.7231	5.561	541.9
725	.00000	.90000	1036.0	.5784-01	.7012-01	.6596-01	.9297	.9905-03	.1130-02	.7117	5.125	540.1
725	.00000	.92500	1037.0	.4512-01	.5469-01	.5159-01	.9284	.7727-03	.8835-03	.5557	4.595	539.6
725	.00000	.95000	1038.0	.4487-01	.5440-01	.5144-01	.9271	.7685-03	.8810-03	.5524	4.567	539.9
725	.00000	.97500	1039.0	.3752-01	.4550-01	.4314-01	.9258	.6426-03	.7388-03	.4611	4.473	541.1
725	.00000	1.0150	40.000	.1722-01	.2082-01	.1982-01	.9242	.2949-03	.3394-03	.2147	1.605	530.6
725	.00000	1.0300	41.000	.1666-01	.2015-01	.1918-01	.9242	.2854-03	.3284-03	.2077	1.553	530.7
725	.00000	1.0450	42.000	.1542-01	.1865-01	.1775-01	.9242	.2641-03	.3039-03	.1924	1.541	530.4
725	.00000	1.0600	43.000	.1266-01	.1531-01	.1457-01	.9242	.2168-03	.2495-03	.1578	1.335	530.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA31)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
739	.9893	7.940	39.98	-1.2427-01	204.0	1269.	93.22	.2194-01	.9684	3758.	.6353-03	.7502-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
739	.2416-01	.4077-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
739	.00000	.80000	1034.0	.6390-01	.7762-01	.7203-01	.9362	.1544-02	.1740-02	1.109	8.204	550.8
739	.00000	.85000	1035.0	.5773-01	.7013-01	.6578-01	.9308	.1395-02	.1589-02	1.001	7.661	551.1
739	.00000	.90000	1036.0	.5707-01	.6929-01	.6515-01	.9297	.1379-02	.1574-02	.9919	7.109	549.4
739	.00000	.92500	1037.0	.4525-01	.5493-01	.5179-01	.9284	.1093-02	.1251-02	.7871	6.479	548.8
739	.00000	.95000	1038.0	.4625-01	.5615-01	.5308-01	.9271	.1117-02	.1283-02	.8036	6.612	549.6
739	.00000	.97500	1039.0	.3747-01	.4552-01	.4313-01	.9258	.9053-03	.1042-02	.6491	6.263	551.7
739	.00000	1.0150	40.000	.1876-01	.2268-01	.2159-01	.9242	.4534-03	.5217-03	.3327	2.482	534.8
739	.00000	1.0300	41.000	.1889-01	.2283-01	.2173-01	.9242	.4563-03	.5251-03	.3349	2.499	534.7
739	.00000	1.0450	42.000	.1702-01	.2057-01	.1958-01	.9242	.4112-03	.4731-03	.3020	2.415	534.2
739	.00000	1.0600	43.000	.1440-01	.1741-01	.1657-01	.9242	.3480-03	.4005-03	.2555	2.158	534.6

DATE 23 FEB 80

OH848 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 199

OH848 60-0 FUSELAGE

(R4UA31)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
737	2.003	7.980	40.04	-2.093-01	434.1	1300.	94.62	.4520-01	2.015	3805.	.1289-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
737	.3500-01	.2870-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
737	.00000	.80000	1034.0	.8871-01	.1080	.1001	.9363	.3105-02	.3504-02	2.255	16.50	573.3
737	.00000	.85000	1035.0	.1022	.1245	.1167	.9309	.3578-02	.4083-02	2.595	19.63	574.4
737	.00000	.90000	1036.0	.1113	.1355	.1272	.9298	.3894-02	.4453-02	2.832	20.06	572.5
737	.00000	.92500	1037.0	.9507-01	.1158	.1090	.9285	.3327-02	.3815-02	2.418	19.67	572.8
737	.00000	.95000	1038.0	.1053	.1283	.1211	.9272	.3684-02	.4237-02	2.669	21.69	575.0
737	.00000	.97500	1039.0	.1006	.1228	.1161	.9259	.3519-02	.4064-02	2.529	24.05	581.0
737	.00000	1.0150	40.000	.3961-01	.4786-01	.4555-01	.9244	.1386-02	.1594-02	1.045	7.756	545.7
737	.00000	1.0300	41.000	.3704-01	.4475-01	.4259-01	.9244	.1296-02	.1491-02	.9776	7.254	545.5
737	.00000	1.0450	42.000	.3466-01	.4188-01	.3986-01	.9244	.1213-02	.1395-02	.9154	7.280	545.1
737	.00000	1.0600	43.000	.2988-01	.3611-01	.3436-01	.9244	.1046-02	.1203-02	.7881	6.619	546.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 200

OH84B 60-0 FUSELAGE

(R4UA31)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
727	3.035	7.990	40.06	-.2097-01	670.9	1314.	95.41	.6928-01	3.096	3826.	.1960-02	.7678-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
727	.4347-01	.2330-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
727	.00000	.80000	1034.0	.1962	.2400	.2220	.9363	.8527-02	.9648-02	6.140	44.48	593.6
727	.00000	.85000	1035.0	.2161	.2648	.2476	.9309	.9392-02	.1076-01	6.699	50.04	600.3
727	.00000	.90000	1036.0	.2322	.2844	.2665	.9298	.1009-01	.1158-01	7.223	50.53	598.0
727	.00000	.92500	1037.0	.2021	.2477	.2327	.9285	.8786-02	.1011-01	6.276	50.38	599.3
727	.00000	.95000	1038.0	.2174	.2667	.2511	.9272	.9448-02	.1092-01	6.713	53.79	603.1
727	.00000	.97500	1039.0	.2049	.2522	.2379	.9259	.8905-02	.1034-01	6.237	58.37	613.3
727	.00000	1.0150	40.000	.6411-01	.7733-01	.7362-01	.9244	.2787-02	.3200-02	2.141	15.89	545.3
727	.00000	1.0300	41.000	.5602-01	.6755-01	.6432-01	.9244	.2435-02	.2796-02	1.873	13.91	544.4
727	.00000	1.0450	42.000	.5165-01	.6227-01	.5929-01	.9244	.2245-02	.2577-02	1.728	13.75	543.7
727	.00000	1.0600	43.000	.4647-01	.5607-01	.5338-01	.9244	.2020-02	.2320-02	1.551	13.03	545.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 201

OH84B 60-0 FUSELAGE

(R4UA32)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
723	.4957	7.900	39.97	-.1731-01	100.1	1263.	93.66	.1113-01	.4862	3748.	.3207-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
723	.1711-01	.5736-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
723	.00000	.80000	1034.0	.6764-01	.8189-01	.7609-01	.9361	.1157-02	.1302-02	.8395	6.256	537.1
723	.00000	.85000	1035.0	.5983-01	.7246-01	.6805-01	.9307	.1023-02	.1164-02	.7412	5.710	538.5
723	.00000	.90000	1036.0	.5945-01	.7193-01	.6772-01	.9296	.1017-02	.1158-02	.7400	5.342	535.1
723	.00000	.92500	1037.0	.4697-01	.5682-01	.5364-01	.9283	.8035-03	.9175-03	.5852	4.852	534.4
723	.00000	.95000	1038.0	.4770-01	.5770-01	.5461-01	.9270	.8160-03	.9341-03	.5944	4.929	534.2
723	.00000	.97500	1039.0	.3853-01	.4665-01	.4425-01	.9257	.6590-03	.7569-03	.4779	4.644	537.6
723	.00000	1.0150	40.000	.2387-01	.2882-01	.2744-01	.9242	.4082-03	.4694-03	.2997	2.243	528.7
723	.00000	1.0300	41.000	.2592-01	.3130-01	.2980-01	.9242	.4434-03	.5097-03	.3259	2.440	527.7
723	.00000	1.0450	42.000	.2527-01	.3050-01	.2905-01	.9242	.4323-03	.4969-03	.3184	2.556	526.2
723	.00000	1.0600	43.000	.2205-01	.2661-01	.2534-01	.9242	.3771-03	.4335-03	.2777	2.356	526.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 202

OH84B 60-0 FUSELAGE

(R4UA32)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
741	.9943	7.940	39.99	-.2082-01	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
741	.2417-01	.4069-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QOOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
741	.00000	.80000	1034.0	.6633-01	.8056-01	.7476-01	.9362	.1603-02	.1807-02	1.148	8.503	549.5
741	.00000	.85000	1035.0	.5732-01	.6966-01	.6533-01	.9308	.1385-02	.1579-02	.9897	7.576	551.3
741	.00000	.90000	1036.0	.5753-01	.6987-01	.6569-01	.9297	.1391-02	.1588-02	.9969	7.147	548.8
741	.00000	.92500	1037.0	.4488-01	.5450-01	.5137-01	.9284	.1085-02	.1242-02	.7784	6.410	548.1
741	.00000	.95000	1038.0	.4573-01	.5553-01	.5248-01	.9271	.1105-02	.1269-02	.7923	6.522	548.8
741	.00000	.97500	1039.0	.3727-01	.4530-01	.4292-01	.9258	.9009-03	.1037-02	.6437	6.212	551.2
741	.00000	1.0150	40.000	.2214-01	.2680-01	.2549-01	.9243	.5351-03	.6162-03	.3895	2.902	537.7
741	.00000	1.0300	41.000	.2408-01	.2916-01	.2774-01	.9243	.5820-03	.6705-03	.4228	3.148	539.2
741	.00000	1.0450	42.000	.2345-01	.2841-01	.2702-01	.9243	.5669-03	.6532-03	.4115	3.281	539.9
741	.00000	1.0600	43.000	.1974-01	.2391-01	.2275-01	.9243	.4771-03	.5498-03	.3460	2.914	540.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 203

OH84B 60-0 FUSELAGE

(R4UA32)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
735	1.997	7.980	40.06	-.2095-01	434.8	1304.	94.91	.4527-01	2.018	3811.	.1287-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
735	.3504-01	.2873-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
735	.00000	.80000	1034.0	.9046-01	.1099	.1020	.9363	.3170-02	.3573-02	2.335	17.14	567.2
735	.00000	.85000	1035.0	.9865-01	.1200	.1124	.9309	.3457-02	.3941-02	2.538	19.25	569.5
735	.00000	.90000	1036.0	.1089	.1322	.1243	.9298	.3815-02	.4355-02	2.812	19.98	566.6
735	.00000	.92500	1037.0	.9465-01	.1150	.1084	.9285	.3317-02	.3797-02	2.444	19.94	566.8
735	.00000	.95000	1038.0	.1048	.1274	.1203	.9272	.3673-02	.4217-02	2.698	21.98	569.2
735	.00000	.97500	1039.0	.1003	.1222	.1157	.9259	.3516-02	.4054-02	2.555	24.35	576.9
735	.00000	1.0150	40.000	.5993-01	.7244-01	.6893-01	.9244	.2100-02	.2415-02	1.586	11.75	548.7
735	.00000	1.0300	41.000	.6312-01	.7632-01	.7261-01	.9244	.2212-02	.2545-02	1.668	12.35	549.6
735	.00000	1.0450	42.000	.6410-01	.7750-01	.7374-01	.9244	.2246-02	.2584-02	1.693	13.43	549.8
735	.00000	1.0600	43.000	.5776-01	.6987-01	.6647-01	.9244	.2024-02	.2329-02	1.523	12.76	551.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 204

OH84B 60-0 FUSELAGE

(R4UA32)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
729	3.003	7.990	40.07	-.2097-01	668.3	1320.	95.85	.6901-01	3.084	3835.	.1943-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
729	.4342-01	.2341-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
729	.00000	.80000	1034.0	.1919	.2348	.2171	.9363	.8332-02	.9427-02	6.026	43.60	596.4
729	.00000	.85000	1035.0	.2140	.2623	.2451	.9309	.9289-02	.1064-01	6.655	49.64	603.3
729	.00000	.90000	1036.0	.2316	.2836	.2658	.9299	.1006-01	.1154-01	7.241	50.62	599.6
729	.00000	.92500	1037.0	.2020	.2474	.2325	.9285	.8769-02	.1009-01	6.305	50.58	600.7
729	.00000	.95000	1038.0	.2168	.2658	.2504	.9272	.9412-02	.1087-01	6.737	53.96	603.8
729	.00000	.97500	1039.0	.2043	.2514	.2373	.9259	.8872-02	.1030-01	6.250	58.44	615.1
729	.00000	1.0150	40.000	.1124	.1363	.1295	.9244	.4878-02	.5623-02	3.670	26.94	567.3
729	.00000	1.0300	41.000	.1153	.1400	.1330	.9244	.5008-02	.5776-02	3.756	27.53	569.8
729	.00000	1.0450	42.000	.1192	.1447	.1375	.9244	.5175-02	.5971-02	3.879	30.46	570.3
729	.00000	1.0600	43.000	.1065	.1293	.1229	.9244	.4623-02	.5336-02	3.455	28.64	572.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 205

OH84B 60-0 FUSELAGE

(R4UA33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
721	.5028	7.900	39.98	-.1386-01	100.9	1257.	93.21	.1121-01	.4897	3739.	.3245-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
721	.1715-01	.5699-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
721	.00000	.80000	1034.0	.6662-01	.8075-01	.7500-01	.9362	.1143-02	.1287-02	.8209	6.114	538.4
721	.00000	.85000	1035.0	.6085-01	.7376-01	.6925-01	.9308	.1044-02	.1188-02	.7492	5.770	538.9
721	.00000	.90000	1036.0	.5915-01	.7165-01	.6743-01	.9297	.1015-02	.1157-02	.7308	5.272	536.4
721	.00000	.92500	1037.0	.4678-01	.5666-01	.5346-01	.9284	.8024-03	.9169-03	.5784	4.792	535.8
721	.00000	.95000	1038.0	.4799-01	.5813-01	.5498-01	.9271	.8232-03	.9431-03	.5933	4.916	535.9
721	.00000	.97500	1039.0	.3866-01	.4686-01	.4443-01	.9258	.6631-03	.7621-03	.4763	4.626	538.4
721	.00000	1.0150	40.000	.2355-01	.2849-01	.2711-01	.9242	.4040-03	.4650-03	.2930	2.189	531.5
721	.00000	1.0300	41.000	.2914-01	.3525-01	.3355-01	.9242	.4999-03	.5754-03	.3624	2.708	531.7
721	.00000	1.0450	42.000	.2995-01	.3623-01	.3448-01	.9242	.5138-03	.5914-03	.3728	2.985	531.1
721	.00000	1.0600	43.000	.2676-01	.3237-01	.3080-01	.9242	.4590-03	.5284-03	.3328	2.816	531.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 206

OH84B 60-0 FUSELAGE

(R4UA33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
743	1.018	7.940	39.99	-.2081-01	209.4	1267.	93.08	.2253-01	.9941	3755.	.6532-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
743	.2447-01	.4021-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
743	.00000	.80000	1034.0	.6678-01	.8114-01	.7528-01	.9362	.1634-02	.1843-02	1.169	8.654	551.1
743	.00000	.85000	1035.0	.5979-01	.7269-01	.6817-01	.9308	.1463-02	.1668-02	1.045	7.992	552.7
743	.00000	.90000	1036.0	.5928-01	.7201-01	.6770-01	.9297	.1451-02	.1657-02	1.040	7.448	550.2
743	.00000	.92500	1037.0	.4614-01	.5604-01	.5283-01	.9284	.1129-02	.1293-02	.8100	6.665	549.5
743	.00000	.95000	1038.0	.4711-01	.5722-01	.5408-01	.9271	.1153-02	.1324-02	.8262	6.797	550.1
743	.00000	.97500	1039.0	.3879-01	.4715-01	.4467-01	.9258	.9493-03	.1093-02	.6781	6.541	552.3
743	.00000	1.0150	40.000	.2216-01	.2685-01	.2554-01	.9242	.5425-03	.6251-03	.3937	2.928	541.0
743	.00000	1.0300	41.000	.2942-01	.3566-01	.3392-01	.9242	.7200-03	.8301-03	.5209	3.870	543.2
743	.00000	1.0450	42.000	.3116-01	.3778-01	.3593-01	.9242	.7627-03	.8793-03	.5516	4.390	543.4
743	.00000	1.0600	43.000	.2791-01	.3384-01	.3218-01	.9242	.6831-03	.7877-03	.4936	4.149	544.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 207

OH84B 60-0 FUSELAGE

(R4UA33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 - BETA = .0000 ELEVON = -12.50
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
733	1.990	7.980	40.04	-2.091-01	433.8	1305.	94.98	.4516-01	2.013	3813.	.1283-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
733	.3501-01	.2877-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
733	.00000	.80000	1034.0	.9077-01	.1104	.1024	.9363	.3178-02	.3583-02	2.332	17.09	570.8
733	.00000	.85000	1035.0	.9789-01	.1191	.1116	.9309	.3427-02	.3908-02	2.509	19.00	572.5
733	.00000	.90000	1036.0	.1078	.1311	.1232	.9298	.3774-02	.4312-02	2.768	19.62	571.2
733	.00000	.92500	1037.0	.9326-01	.1135	.1069	.9285	.3265-02	.3741-02	2.394	19.48	571.4
733	.00000	.95000	1038.0	.1027	.1251	.1181	.9272	.3596-02	.4134-02	2.628	21.36	574.0
733	.00000	.97500	1039.0	.9833-01	.1199	.1135	.9259	.3442-02	.3973-02	2.493	23.71	580.5
733	.00000	1.0150	40.000	.7713-01	.9351-01	.8891-01	.9244	.2700-02	.3113-02	2.011	14.82	559.9
733	.00000	1.0300	41.000	.8826-01	.1071	.1018	.9244	.3090-02	.3564-02	2.293	16.87	562.5
733	.00000	1.0450	42.000	.9702-01	.1177	.1119	.9244	.3397-02	.3917-02	2.522	19.88	562.3
733	.00000	1.0600	43.000	.8590-01	.1043	.9910-01	.9244	.3007-02	.3470-02	2.228	18.54	563.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 208

OH84B 60-0 FUSELAGE

(R4UA33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
731	3.017	7.990	40.06	-.2096-01	671.5	1320.	95.85	.6935-01	3.099	3835.	.1953-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
731	.4352-01	.2335-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
731	.00000	.80000	1034.0	.1927	.2357	.2181	.9363	.8387-02	.9490-02	6.066	43.88	596.5
731	.00000	.85000	1035.0	.2168	.2658	.2485	.9309	.9435-02	.1081-01	6.751	50.33	604.2
731	.00000	.90000	1036.0	.2341	.2866	.2686	.9298	.1019-01	.1169-01	7.331	51.24	600.0
731	.00000	.92500	1037.0	.2023	.2478	.2329	.9285	.8805-02	.1013-01	6.328	50.75	601.0
731	.00000	.95000	1038.0	.2172	.2664	.2509	.9272	.9454-02	.1092-01	6.766	54.19	604.0
731	.00000	.97500	1039.0	.2046	.2519	.2376	.9259	.8904-02	.1034-01	6.263	58.53	616.3
731	.00000	1.0150	40.000	.1594	.1942	.1844	.9244	.6936-02	.8025-02	5.102	37.14	584.1
731	.00000	1.0300	41.000	.1756	.2140	.2031	.9244	.7641-02	.8840-02	5.619	40.90	584.2
731	.00000	1.0450	42.000	.1746	.2127	.2019	.9244	.7598-02	.8788-02	5.598	43.69	582.8
731	.00000	1.0600	43.000	.1531	.1865	.1771	.9244	.6661-02	.7707-02	4.898	40.36	584.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 209

OH84B 60-0 FUSELAGE

(R4UA34)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
633	.5017	7.900	39.93	-.3449-02	100.0	1252.	92.84	.1112-01	.4857	3732.	.3232-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
633	.1707-01	.5709-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R* TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
633	.00000	.80000	1034.0	.6425-01	.7797-01	.7240-01	.9360	.1097-02	.1236-02	.7798	5.801	540.6
633	.00000	.85000	1035.0	.6067-01	.7365-01	.6912-01	.9306	.1036-02	.1180-02	.7360	5.662	541.1
633	.00000	.90000	1036.0	.5969-01	.7241-01	.6812-01	.9296	.1019-02	.1163-02	.7262	5.232	539.1
633	.00000	.92500	1037.0	.4532-01	.5497-01	.5185-01	.9282	.7737-03	.8852-03	.5516	4.563	538.8
633	.00000	.95000	1038.0	.4681-01	.5678-01	.5370-01	.9269	.7991-03	.9167-03	.5696	4.712	538.9
633	.00000	.97500	1039.0	.3836-01	.4656-01	.4414-01	.9256	.6549-03	.7536-03	.4653	4.513	541.2
633	.00000	1.0150	40.000	.1946-01	.2356-01	.2242-01	.9241	.3323-03	.3828-03	.2391	1.786	532.2
633	.00000	1.0300	41.000	.1884-01	.2280-01	.2170-01	.9241	.3215-03	.3704-03	.2316	1.731	531.5
633	.00000	1.0450	42.000	.1720-01	.2081-01	.1981-01	.9241	.2936-03	.3382-03	.2118	1.697	530.4
633	.00000	1.0600	43.000	.1361-01	.1647-01	.1567-01	.9241	.2323-03	.2675-03	.1675	1.418	530.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 210

OH84B 60-0 FUSELAGE

(R4UA34)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -12.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
659	1.001	7.940	39.97	-4.645-06	206.7	1270.	93.30	.2223-01	.9811	3760.	.6431-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
659	.2432-01	.4053-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
659	.00000	.80000	1034.0	.6636-01	.8050-01	.7474-01	.9361	.1614-02	.1818-02	1.166	8.649	547.0
659	.00000	.85000	1035.0	.6050-01	.7344-01	.6891-01	.9307	.1472-02	.1676-02	1.061	8.130	548.8
659	.00000	.90000	1036.0	.5872-01	.7122-01	.6699-01	.9296	.1428-02	.1629-02	1.034	7.420	546.1
659	.00000	.92500	1037.0	.4560-01	.5529-01	.5214-01	.9283	.1109-02	.1268-02	.8035	6.626	545.2
659	.00000	.95000	1038.0	.4636-01	.5683-01	.5374-01	.9270	.1140-02	.1307-02	.8249	6.799	546.0
659	.00000	.97500	1039.0	.3702-01	.4494-01	.4260-01	.9257	.9006-03	.1036-02	.6491	6.272	548.9
659	.00000	1.0150	40.000	.2121-01	.2561-01	.2439-01	.9242	.5160-03	.5932-03	.3818	2.856	529.8
659	.00000	1.0300	41.000	.2063-01	.2490-01	.2371-01	.9242	.5019-03	.5767-03	.3720	2.785	528.4
659	.00000	1.0450	42.000	.1852-01	.2234-01	.2128-01	.9242	.4505-03	.5176-03	.3346	2.684	527.3
659	.00000	1.0600	43.000	.1511-01	.1823-01	.1736-01	.9242	.3676-03	.4223-03	.2729	2.314	527.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 211

OH84B 60-0 FUSELAGE

(R4UA34)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -12.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
647	1.985	7.980	40.00	.3471-02	436.3	1312.	95.49	.4542-01	2.025	3823.	.1284-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
647	.3514-01	.2878-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
647	.00000	.80000	1034.0	.9675-01	.1177	.1091	.9362	.3400-02	.3835-02	2.510	18.37	573.3
647	.00000	.85000	1035.0	.1011	.1231	.1154	.9308	.3553-02	.4054-02	2.613	19.76	576.2
647	.00000	.90000	1036.0	.1120	.1361	.1279	.9297	.3934-02	.4495-02	2.908	20.60	572.6
647	.00000	.92500	1037.0	.9701-01	.1179	.1111	.9284	.3409-02	.3905-02	2.520	20.49	572.6
647	.00000	.95000	1038.0	.1071	.1303	.1230	.9271	.3763-02	.4324-02	2.774	22.54	574.5
647	.00000	.97500	1039.0	.1014	.1237	.1171	.9258	.3564-02	.4113-02	2.598	24.69	582.6
647	.00000	1.0150	40.000	.4591-01	.5538-01	.5274-01	.9243	.1613-02	.1853-02	1.237	9.181	545.0
647	.00000	1.0300	41.000	.3646-01	.4395-01	.4186-01	.9243	.1281-02	.1471-02	.9851	7.321	542.6
647	.00000	1.0450	42.000	.3270-01	.3940-01	.3753-01	.9243	.1149-02	.1319-02	.8864	7.066	540.3
647	.00000	1.0600	43.000	.2749-01	.3312-01	.3155-01	.9243	.9659-03	.1109-02	.7454	6.279	540.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 212

OH84B 60-0 FUSELAGE

(R4UA34)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
649	3.013	7.990	40.03	.6967-02	670.5	1320.	95.85	.6924-01	3.094	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
649	.4349-01	.2337-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
649	.00000	.80000	1034.0	.1932	.2366	.2188	.9363	.8403-02	.9515-02	6.044	43.64	600.4
649	.00000	.85000	1035.0	.2158	.2649	.2475	.9309	.9385-02	.1076-01	6.686	49.77	607.3
649	.00000	.90000	1036.0	.2330	.2858	.2677	.9298	.1013-01	.1164-01	7.244	50.51	604.8
649	.00000	.92500	1037.0	.2002	.2456	.2307	.9285	.8707-02	.1003-01	6.215	49.73	605.9
649	.00000	.95000	1038.0	.2156	.2648	.2493	.9272	.9375-02	.1084-01	6.659	53.19	609.4
649	.00000	.97500	1039.0	.2048	.2523	.2380	.9259	.8906-02	.1035-01	6.240	58.23	619.1
649	.00000	1.0150	40.000	.7159-01	.8646-01	.8230-01	.9243	.3113-02	.3579-02	2.389	17.67	552.4
649	.00000	1.0300	41.000	.5725-01	.6908-01	.6577-01	.9243	.2490-02	.2860-02	1.919	14.21	549.1
649	.00000	1.0450	42.000	.5186-01	.6256-01	.5957-01	.9243	.2255-02	.2590-02	1.741	13.83	547.8
649	.00000	1.0600	43.000	.4412-01	.5324-01	.5069-01	.9243	.1919-02	.2204-02	1.479	12.40	549.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 213

OH84B 60-0 FUSELAGE

(R4UA35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
635	.4992	7.900	39.96	-.3458-02	99.17	1249.	92.62	.1102-01	.4815	3727.	.3212-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
635	.1699-01	.5725-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
635	.00000	.80000	1034.0	.6625-01	.8040-01	.7464-01	.9361	.1126-02	.1268-02	.7988	5.947	539.1
635	.00000	.85000	1035.0	.6176-01	.7497-01	.7035-01	.9307	.1049-02	.1195-02	.7438	5.726	539.8
635	.00000	.90000	1036.0	.5961-01	.7231-01	.6802-01	.9296	.1013-02	.1156-02	.7202	5.193	537.6
635	.00000	.92500	1037.0	.4767-01	.5782-01	.5453-01	.9283	.8099-03	.9265-03	.5762	4.771	537.2
635	.00000	.95000	1038.0	.4840-01	.5870-01	.5551-01	.9270	.8224-03	.9432-03	.5852	4.845	537.1
635	.00000	.97500	1039.0	.3830-01	.4648-01	.4406-01	.9257	.6507-03	.7486-03	.4615	4.480	539.5
635	.00000	1.0150	40.000	.2440-01	.2955-01	.2812-01	.9242	.4146-03	.4777-03	.2970	2.219	532.2
635	.00000	1.0300	41.000	.2532-01	.3066-01	.2917-01	.9242	.4302-03	.4957-03	.3083	2.303	532.1
635	.00000	1.0450	42.000	.2467-01	.2987-01	.2842-01	.9242	.4192-03	.4829-03	.3006	2.407	531.5
635	.00000	1.0600	43.000	.2105-01	.2550-01	.2426-01	.9242	.3577-03	.4122-03	.2563	2.168	532.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 214

OH84B 60-0 FUSELAGE

(R4UA35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
657	.9860	7.940	39.99	-.4654-06	202.4	1265.	92.93	.2177-01	.9606	3752.	.6322-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) #.0175
657	.2405-01	.4086-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
657	.00000	.80000	1034.0	.6139-01	.7456-01	.6919-01	.9362	.1477-02	.1664-02	1.058	7.837	548.4
657	.00000	.85000	1035.0	.5842-01	.7096-01	.6656-01	.9308	.1405-02	.1601-02	1.006	7.705	549.1
657	.00000	.90000	1036.0	.5781-01	.7019-01	.6600-01	.9297	.1391-02	.1587-02	.9971	7.153	547.6
657	.00000	.92500	1037.0	.4440-01	.5390-01	.5081-01	.9284	.1068-02	.1222-02	.7661	6.311	547.3
657	.00000	.95000	1038.0	.4559-01	.5536-01	.5232-01	.9271	.1096-02	.1258-02	.7858	6.471	548.0
657	.00000	.97500	1039.0	.3695-01	.4490-01	.4254-01	.9258	.8888-03	.1023-02	.6351	6.133	550.1
657	.00000	1.0150	40.000	.2475-01	.2996-01	.2850-01	.9243	.5954-03	.6856-03	.4335	3.232	536.5
657	.00000	1.0300	41.000	.2589-01	.3134-01	.2982-01	.9243	.6228-03	.7172-03	.4535	3.380	536.6
657	.00000	1.0450	42.000	.2447-01	.2961-01	.2817-01	.9243	.5885-03	.6776-03	.4287	3.424	536.3
657	.00000	1.0600	43.000	.2031-01	.2458-01	.2339-01	.9243	.4885-03	.5625-03	.3555	3.000	536.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 215

OH84B 60-0 FUSELAGE

(R4UA35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
645	1.997	7.980	40.01	-4.664-06	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
645	.3502-01	.2873-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
645	.00000	.80000	1034.0	.9155-01	.1116	.1034	.9362	.3206-02	.3622-02	2.322	16.95	578.5
645	.00000	.85000	1035.0	.1025	.1250	.1171	.9308	.3590-02	.4101-02	2.595	19.58	579.7
645	.00000	.90000	1036.0	.1126	.1373	.1289	.9297	.3943-02	.4513-02	2.858	20.20	577.8
645	.00000	.92500	1037.0	.9733-01	.1187	.1117	.9284	.3409-02	.3912-02	2.470	20.03	578.1
645	.00000	.95000	1038.0	.1070	.1306	.1232	.9271	.3748-02	.4315-02	2.707	21.94	580.4
645	.00000	.97500	1039.0	.1021	.1248	.1180	.9258	.3575-02	.4132-02	2.559	24.27	586.7
645	.00000	1.0150	40.000	.6552-01	.7938-01	.7550-01	.9243	.2294-02	.2644-02	1.711	12.63	556.7
645	.00000	1.0300	41.000	.6411-01	.7767-01	.7387-01	.9243	.2245-02	.2587-02	1.674	12.35	557.0
645	.00000	1.0450	42.000	.6430-01	.7792-01	.7410-01	.9243	.2252-02	.2595-02	1.678	13.26	557.5
645	.00000	1.0600	43.000	.5752-01	.6974-01	.6631-01	.9243	.2014-02	.2322-02	1.498	12.50	559.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 216

OH84B 60-0 FUSELAGE

(R4UA35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
655	2.999	7.990	40.01	.6952-02	675.0	1330.	96.58	.6970-01	3.115	3849.	.1948-02	.7772-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
655	.4369-01	.2340-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
655	.00000	.80000	1034.0	.1959	.2398	.2218	.9362	.8558-02	.9689-02	6.218	44.84	603.1
655	.00000	.85000	1035.0	.2148	.2636	.2463	.9308	.9384-02	.1076-01	6.746	50.13	610.8
655	.00000	.90000	1036.0	.2317	.2839	.2661	.9297	.1012-01	.1162-01	7.318	50.98	606.6
655	.00000	.92500	1037.0	.2016	.2472	.2323	.9284	.8810-02	.1015-01	6.360	50.84	607.7
655	.00000	.95000	1038.0	.2170	.2663	.2508	.9271	.9480-02	.1096-01	6.810	54.34	611.4
655	.00000	.97500	1039.0	.2030	.2501	.2360	.9258	.8869-02	.1031-01	6.258	58.26	624.0
655	.00000	1.0150	40.000	.1168	.1417	.1347	.9243	.5103-02	.5886-02	3.858	28.22	573.7
655	.00000	1.0300	41.000	.1176	.1428	.1357	.9243	.5139-02	.5930-02	3.881	28.38	574.5
655	.00000	1.0450	42.000	.1206	.1464	.1391	.9243	.5269-02	.6079-02	3.979	31.18	574.4
655	.00000	1.0600	43.000	.1067	.1295	.1231	.9243	.4661-02	.5380-02	3.513	29.06	576.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 217

OH84B 60-0 FUSELAGE

(R4UA36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
637	.5033	7.900	39.93	-.6897-02	99.99	1249.	92.62	.1111-01	.4855	3727.	.3238-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
637	.1706-01	.5702-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
637	.00000	.80000	1034.0	.6356-01	.7717-01	.7164-01	.9360	.1084-02	.1222-02	.7673	5.706	541.1
637	.00000	.85000	1035.0	.5899-01	.7165-01	.6723-01	.9306	.1006-02	.1147-02	.7115	5.473	541.7
637	.00000	.90000	1036.0	.5912-01	.7177-01	.6750-01	.9296	.1009-02	.1152-02	.7143	5.142	540.5
637	.00000	.92500	1037.0	.4429-01	.5376-01	.5070-01	.9282	.7556-03	.8650-03	.5353	4.425	540.3
637	.00000	.95000	1038.0	.4506-01	.5472-01	.5173-01	.9269	.7698-03	.8826-03	.5441	4.496	541.0
637	.00000	.97500	1039.0	.3703-01	.4499-01	.4264-01	.9256	.6318-03	.7274-03	.4461	4.324	542.6
637	.00000	1.0150	40.000	.2133-01	.2586-01	.2460-01	.9241	.3639-03	.4197-03	.2596	1.936	535.4
637	.00000	1.0300	41.000	.2740-01	.3322-01	.3160-01	.9241	.4675-03	.5392-03	.3333	2.485	535.9
637	.00000	1.0450	42.000	.2834-01	.3436-01	.3268-01	.9241	.4835-03	.5576-03	.3445	2.753	536.0
637	.00000	1.0600	43.000	.2466-01	.2991-01	.2845-01	.9241	.4208-03	.4854-03	.2995	2.527	536.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 218

OH84B 60-0 FUSELAGE

(R4UA36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
663	1.016	7.940	39.97	-4643-06	207.3	1260.	92.56	.2230-01	.9840	3745.	.6501-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
663	.2433-01	.4028-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
663	.00000	.80000	1034.0	.6528-01	.7925-01	.7356-01	.9361	.1588-02	.1789-02	1.134	8.417	545.4
663	.00000	.85000	1035.0	.5989-01	.7277-01	.6826-01	.9307	.1457-02	.1660-02	1.037	7.954	547.7
663	.00000	.90000	1036.0	.6043-01	.7335-01	.6898-01	.9296	.1470-02	.1678-02	1.052	7.556	544.4
663	.00000	.92500	1037.0	.4573-01	.5550-01	.5233-01	.9283	.1113-02	.1273-02	.7965	6.573	543.7
663	.00000	.95000	1038.0	.4758-01	.5774-01	.5459-01	.9270	.1157-02	.1328-02	.8279	6.831	544.3
663	.00000	.97500	1039.0	.3794-01	.4610-01	.4368-01	.9257	.9229-03	.1063-02	.6565	6.346	548.3
663	.00000	1.0150	40.000	.2203-01	.2669-01	.2539-01	.9242	.5359-03	.6176-03	.3864	2.878	538.5
663	.00000	1.0300	41.000	.2917-01	.3535-01	.3362-01	.9242	.7095-03	.8179-03	.5112	3.806	539.1
663	.00000	1.0450	42.000	.3078-01	.3729-01	.3547-01	.9242	.7487-03	.8629-03	.5401	4.310	538.3
663	.00000	1.0600	43.000	.2679-01	.3246-01	.3088-01	.9242	.6517-03	.7512-03	.4697	3.959	539.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 219

OH84B 60-0 FUSELAGE

(R4UA36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
643	2.006	7.980	39.98	-.1040-01	434.5	1299.	94.54	.4523-01	2.016	3804.	.1291-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
643	.3501-01	.2867-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
643	.00000	.80000	1034.0	.8994-01	.1094	.1015	.9362	.3149-02	.3553-02	2.295	16.83	569.7
643	.00000	.85000	1035.0	.1022	.1245	.1167	.9307	.3579-02	.4084-02	2.602	19.72	571.6
643	.00000	.90000	1036.0	.1125	.1369	.1287	.9297	.3940-02	.4504-02	2.871	20.37	569.9
643	.00000	.92500	1037.0	.9482-01	.1154	.1087	.9284	.3319-02	.3806-02	2.417	19.68	570.5
643	.00000	.95000	1038.0	.1049	.1278	.1207	.9271	.3673-02	.4225-02	2.664	21.66	573.5
643	.00000	.97500	1039.0	.9971-01	.1217	.1152	.9258	.3490-02	.4032-02	2.506	23.84	580.6
643	.00000	1.0150	40.000	.7821-01	.9494-01	.9026-01	.9242	.2738-02	.3160-02	2.017	14.85	561.8
643	.00000	1.0300	41.000	.8929-01	.1085	.1031	.9242	.3126-02	.3610-02	2.292	16.84	565.4
643	.00000	1.0450	42.000	.9828-01	.1194	.1135	.9242	.3440-02	.3974-02	2.521	19.84	565.8
643	.00000	1.0600	43.000	.8874-01	.1079	.1025	.9242	.3106-02	.3589-02	2.271	18.87	567.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 220

OH84B 60-0 FUSELAGE

(R4UA36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
653	2.998	7.990	40.02	.6962-02	672.4	1327.	96.36	.6944-01	3.103	3845.	.1945-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
653	.4359-01	.2341-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
653	.00000	.80000	1034.0	.1937	.2372	.2194	.9363	.8444-02	.9562-02	6.109	44.05	603.2
653	.00000	.85000	1035.0	.2130	.2615	.2444	.9308	.9286-02	.1065-01	6.646	49.38	611.0
653	.00000	.90000	1036.0	.2318	.2841	.2662	.9298	.1010-01	.1160-01	7.275	50.68	606.5
653	.00000	.92500	1037.0	.2017	.2473	.2323	.9285	.8791-02	.1013-01	6.323	50.55	607.5
653	.00000	.95000	1038.0	.2169	.2663	.2508	.9272	.9455-02	.1093-01	6.765	53.99	611.1
653	.00000	.97500	1039.0	.2039	.2513	.2371	.9258	.8889-02	.1033-01	6.252	58.22	623.4
653	.00000	1.0150	40.000	.1668	.2036	.1932	.9243	.7270-02	.8423-02	5.334	38.66	593.0
653	.00000	1.0300	41.000	.1770	.2160	.2050	.9243	.7716-02	.8936-02	5.672	41.13	591.6
653	.00000	1.0450	42.000	.1759	.2146	.2037	.9243	.7669-02	.8879-02	5.648	43.91	590.2
653	.00000	1.0600	43.000	.1530	.1867	.1772	.9243	.6669-02	.7725-02	4.901	40.23	591.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 ⁻⁶	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHC SLUGS /FT3	MU LB-SEC /FT2
639	.5035	7.900	39.95	-.1383-01	99.79	1247.	92.47	.1109-01	.4845	3724.	.3237-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
639	.1704-01	.5702-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
639	.00000	.80000	1034.0	.6602-01	.8007-01	.7436-01	.9361	.1125-02	.1267-02	.7997	5.963	535.9
639	.00000	.85000	1035.0	.5935-01	.7200-01	.6758-01	.9307	.1011-02	.1152-02	.7174	5.530	537.3
639	.00000	.90000	1036.0	.5868-01	.7114-01	.6693-01	.9296	.9999-03	.1140-02	.7118	5.139	534.8
639	.00000	.92500	1037.0	.4520-01	.5480-01	.5169-01	.9283	.7702-03	.8808-03	.5486	4.548	534.5
639	.00000	.95000	1038.0	.4622-01	.5603-01	.5299-01	.9270	.7875-03	.9029-03	.5606	4.648	534.7
639	.00000	.97500	1039.0	.3673-01	.4457-01	.4225-01	.9257	.6258-03	.7199-03	.4435	4.310	537.9
639	.00000	1.0150	40.000	.1675-01	.2030-01	.1931-01	.9242	.2853-03	.3290-03	.2032	1.516	534.6
639	.00000	1.0300	41.000	.3194-01	.3873-01	.3684-01	.9242	.5442-03	.6277-03	.3871	2.887	535.4
639	.00000	1.0450	42.000	.3731-01	.4524-01	.4303-01	.9242	.6358-03	.7332-03	.4523	3.615	535.3
639	.00000	1.0600	43.000	.3625-01	.4396-01	.4181-01	.9242	.6177-03	.7124-03	.4390	3.705	536.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 222

OH84B 60-0 FUSELAGE

(R4UA37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BOFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
661	1.021	7.940	39.97	-.4644-06	206.8	1254.	92.12	.2224-01	.9816	3736.	.6517-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
661	.2428-01	.4021-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
661	.00000	.80000	1034.0	.6747-01	.8200-01	.7608-01	.9361	.1638-02	.1847-02	1.159	8.596	546.2
661	.00000	.85000	1035.0	.5812-01	.7068-01	.6628-01	.9307	.1411-02	.1609-02	.9951	7.628	548.3
661	.00000	.90000	1036.0	.5905-01	.7175-01	.6745-01	.9296	.1434-02	.1637-02	1.016	7.295	545.2
661	.00000	.92500	1037.0	.4575-01	.5557-01	.5238-01	.9283	.1111-02	.1272-02	.7876	6.497	544.5
661	.00000	.95000	1038.0	.4714-01	.5727-01	.5413-01	.9270	.1144-02	.1314-02	.8109	6.687	545.1
661	.00000	.97500	1039.0	.3625-01	.4409-01	.4177-01	.9257	.8800-03	.1014-02	.6204	5.995	548.7
661	.00000	1.0150	40.000	.1223-01	.1485-01	.1412-01	.9242	.2969-03	.3428-03	.2106	1.564	544.1
661	.00000	1.0300	41.000	.3645-01	.4428-01	.4209-01	.9242	.8849-03	.1022-02	.6271	4.654	545.0
661	.00000	1.0450	42.000	.4320-01	.5248-01	.4985-01	.9242	.1049-02	.1211-02	.7431	5.910	545.1
661	.00000	1.0600	43.000	.4151-01	.5044-01	.4794-01	.9242	.1008-02	.1164-02	.7137	5.995	545.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 223

OH84B 60-0 FUSELAGE

(R4UA37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
641	2.028	7.980	39.99	-.6938-02	435.7	1292.	94.03	.4536-01	2.022	3794.	.1302-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
641	.3502-01	.2854-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
641	.00000	.80000	1034.0	.9210-01	.1120	.1039	.9362	.3225-02	.3638-02	2.344	17.23	564.8
641	.00000	.85000	1035.0	.1003	.1220	.1144	.9308	.3512-02	.4006-02	2.545	19.33	567.0
641	.00000	.90000	1036.0	.1113	.1353	.1272	.9297	.3897-02	.4453-02	2.832	20.14	564.9
641	.00000	.92500	1037.0	.9520-01	.1158	.1091	.9284	.3334-02	.3820-02	2.422	19.78	565.1
641	.00000	.95000	1038.0	.1059	.1289	.1217	.9271	.3708-02	.4263-02	2.684	21.88	567.9
641	.00000	.97500	1039.0	.1010	.1232	.1166	.9258	.3537-02	.4083-02	2.533	24.16	575.4
641	.00000	1.0150	40.000	.1328	.1617	.1536	.9243	.4651-02	.5379-02	3.364	24.67	568.5
641	.00000	1.0300	41.000	.1548	.1887	.1792	.9243	.5421-02	.6274-02	3.902	28.58	571.8
641	.00000	1.0450	42.000	.1743	.2126	.2018	.9243	.6104-02	.7068-02	4.376	34.29	574.6
641	.00000	1.0600	43.000	.1621	.1979	.1879	.9243	.5677-02	.6579-02	4.050	33.47	578.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BOFLAP = 5.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
651	2.990	7.990	40.05	.3490-02	671.4	1328.	96.43	.6934-01	3.098	3846.	.1941-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
651	.4356-01	.2344-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
651	.00000	.80000	1034.0	.1938	.2371	.2193	.9363	.8443-02	.9554-02	6.145	44.38	599.9
651	.00000	.85000	1035.0	.2116	.2594	.2425	.9309	.9217-02	.1056-01	6.635	49.39	607.7
651	.00000	.90000	1036.0	.2301	.2817	.2641	.9298	.1002-01	.1150-01	7.257	50.63	603.6
651	.00000	.92500	1037.0	.1992	.2440	.2293	.9285	.8679-02	.9990-02	6.276	50.25	604.5
651	.00000	.95000	1038.0	.2152	.2639	.2486	.9272	.9376-02	.1083-01	6.744	53.90	608.3
651	.00000	.97500	1039.0	.2024	.2492	.2351	.9259	.8816-02	.1024-01	6.235	58.15	620.4
651	.00000	1.0150	40.000	.2328	.2850	.2702	.9244	.1014-01	.1177-01	7.352	53.03	602.7
651	.00000	1.0300	41.000	.2315	.2834	.2687	.9244	.1008-01	.1171-01	7.303	52.65	603.4
651	.00000	1.0450	42.000	.2298	.2813	.2668	.9244	.1001-01	.1162-01	7.264	56.14	602.2
651	.00000	1.0600	43.000	.1991	.2438	.2311	.9244	.8671-02	.1007-01	6.276	51.21	603.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA38)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
631	.5096	7.900	39.97	.1384-01	101.0	1247.	92.47	.1122-01	.4903	3724.	.3276-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
631	.1714-01	.5668-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
631	.00000	.80000	1034.0	.6659-01	.8073-01	.7497-01	.9361	.1141-02	.1285-02	.8123	6.060	535.0
631	.00000	.85000	1035.0	.5816-01	.7053-01	.6620-01	.9307	.9969-03	.1135-02	.7083	5.463	536.1
631	.00000	.90000	1036.0	.5830-01	.7066-01	.6649-01	.9296	.9994-03	.1140-02	.7123	5.145	534.0
631	.00000	.92500	1037.0	.4561-01	.5527-01	.5214-01	.9283	.7818-03	.8938-03	.5574	4.623	533.7
631	.00000	.95000	1038.0	.4611-01	.5589-01	.5286-01	.9270	.7905-03	.9061-03	.5633	4.672	534.0
631	.00000	.97500	1039.0	.3785-01	.4591-01	.4353-01	.9257	.6488-03	.7461-03	.4606	4.479	536.7
631	.00000	1.0150	40.000	.1934-01	.2340-01	.2227-01	.9242	.3315-03	.3817-03	.2382	1.784	528.0
631	.00000	1.0300	41.000	.1871-01	.2263-01	.2153-01	.9242	.3206-03	.3691-03	.2307	1.728	527.3
631	.00000	1.0450	42.000	.1768-01	.2138-01	.2035-01	.9242	.3031-03	.3488-03	.2183	1.753	526.2
631	.00000	1.0600	43.000	.1388-01	.1679-01	.1598-01	.9242	.2380-03	.2739-03	.1713	1.453	526.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 226

OH84B 60-0 FUSELAGE

(R4UA38)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
605	1.013	7.940	39.97	.1385-01	206.2	1258.	92.42	.2218-01	.9787	3742.	.6477-03	.7437-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
605	.2425-01	.4035-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
605	.00000	.80000	1034.0	.6718-01	.8157-01	.7571-01	.9361	.1629-02	.1836-02	1.162	8.624	544.7
605	.00000	.85000	1035.0	.6201-01	.7534-01	.7067-01	.9307	.1504-02	.1714-02	1.069	8.204	546.7
605	.00000	.90000	1036.0	.6026-01	.7315-01	.6879-01	.9296	.1462-02	.1668-02	1.043	7.498	543.9
605	.00000	.92500	1037.0	.4701-01	.5705-01	.5380-01	.9283	.1140-02	.1305-02	.8147	6.726	543.1
605	.00000	.95000	1038.0	.4831-01	.5864-01	.5543-01	.9270	.1172-02	.1345-02	.8365	6.903	543.8
605	.00000	.97500	1039.0	.3867-01	.4698-01	.4452-01	.9257	.9379-03	.1080-02	.6668	6.450	546.7
605	.00000	1.0150	40.000	.2136-01	.2581-01	.2457-01	.9242	.5181-03	.5960-03	.3779	2.829	528.3
605	.00000	1.0300	41.000	.2042-01	.2466-01	.2348-01	.9242	.4952-03	.5695-03	.3619	2.711	526.9
605	.00000	1.0450	42.000	.1904-01	.2299-01	.2189-01	.9242	.4619-03	.5310-03	.3381	2.715	525.6
605	.00000	1.0600	43.000	.1559-01	.1882-01	.1792-01	.9242	.3781-03	.4347-03	.2767	2.348	525.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 227

OH84B 60-0 FUSELAGE

(R4UA38)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
603	2.009	7.980	39.99	.1734-01	434.1	1297.	94.40	.4519-01	2.014	3801.	.1292-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
603	.3498-01	.2866-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
603	.00000	.80000	1034.0	.9662-01	.1175	.1090	.9362	.3380-02	.3812-02	2.470	18.14	566.0
603	.00000	.85000	1035.0	.1049	.1276	.1196	.9308	.3668-02	.4185-02	2.667	20.22	569.6
603	.00000	.90000	1036.0	.1155	.1404	.1319	.9297	.4039-02	.4615-02	2.949	20.95	566.5
603	.00000	.92500	1037.0	.9873-01	.1201	.1131	.9284	.3453-02	.3957-02	2.520	20.56	566.9
603	.00000	.95000	1038.0	.1095	.1332	.1258	.9271	.3829-02	.4402-02	2.785	22.68	569.5
603	.00000	.97500	1039.0	.1039	.1268	.1200	.9258	.3636-02	.4198-02	2.613	24.89	577.9
603	.00000	1.0150	40.000	.4602-01	.5554-01	.5288-01	.9243	.1610-02	.1850-02	1.218	9.061	540.1
603	.00000	1.0300	41.000	.3898-01	.4703-01	.4479-01	.9243	.1364-02	.1567-02	1.033	7.695	538.8
603	.00000	1.0450	42.000	.3646-01	.4396-01	.4187-01	.9243	.1275-02	.1465-02	.9687	7.734	537.1
603	.00000	1.0600	43.000	.3112-01	.3753-01	.3574-01	.9243	.1088-02	.1250-02	.8265	6.971	537.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA38)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
581	2.994	7.990	40.05	.1047-01	671.7	1327.	96.36	.6937-01	3.100	3845.	.1943-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
581	.4357-01	.2342-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
581	.00000	.80000	1034.0	.1934	.2370	.2191	.9363	.8427-02	.9545-02	6.079	43.79	605.3
581	.00000	.85000	1035.0	.2130	.2616	.2443	.9309	.9278-02	.1064-01	6.624	49.18	612.7
581	.00000	.90000	1036.0	.2297	.2818	.2639	.9298	.1001-01	.1150-01	7.188	50.02	608.5
581	.00000	.92500	1037.0	.1993	.2445	.2296	.9285	.8682-02	.1000-01	6.228	49.75	609.3
581	.00000	.95000	1038.0	.2162	.2656	.2500	.9272	.9418-02	.1089-01	6.719	53.57	613.2
581	.00000	.97500	1039.0	.2033	.2507	.2364	.9259	.8857-02	.1030-01	6.213	57.81	625.2
581	.00000	1.0150	40.000	.6598-01	.7972-01	.7587-01	.9244	.2875-02	.3305-02	2.213	16.33	556.9
581	.00000	1.0300	41.000	.5469-01	.6601-01	.6284-01	.9244	.2383-02	.2738-02	1.844	13.63	553.0
581	.00000	1.0450	42.000	.4922-01	.5937-01	.5653-01	.9244	.2144-02	.2463-02	1.665	13.21	550.3
581	.00000	1.0600	43.000	.4156-01	.5013-01	.4773-01	.9244	.1811-02	.2080-02	1.405	11.77	550.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
621	.4994	7.900	39.93	.1380-01	97.55	1235.	91.58	.1084-01	.4736	3706.	.3195-03	.7369-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
621	.1682-01	.5733-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
621	.00000	.80000	1034.0	.6286-01	.7633-01	.7086-01	.9361	.1057-02	.1192-02	.7399	5.520	534.9
621	.00000	.85000	1035.0	.6051-01	.7348-01	.6895-01	.9307	.1018-02	.1160-02	.7116	5.490	535.4
621	.00000	.90000	1036.0	.5863-01	.7119-01	.6695-01	.9296	.9861-03	.1126-02	.6903	4.984	534.7
621	.00000	.92500	1037.0	.4626-01	.5616-01	.5296-01	.9283	.7780-03	.8906-03	.5447	4.516	534.5
621	.00000	.95000	1038.0	.4562-01	.5539-01	.5237-01	.9270	.7672-03	.8807-03	.5369	4.451	534.9
621	.00000	.97500	1039.0	.3756-01	.4561-01	.4323-01	.9257	.6316-03	.7271-03	.4414	4.293	535.9
621	.00000	1.0150	40.000	.2393-01	.2899-01	.2758-01	.9241	.4025-03	.4639-03	.2851	2.136	526.5
621	.00000	1.0300	41.000	.2519-01	.3051-01	.2903-01	.9241	.4237-03	.4883-03	.2999	2.247	526.7
621	.00000	1.0450	42.000	.2383-01	.2886-01	.2746-01	.9241	.4007-03	.4618-03	.2838	2.279	526.4
621	.00000	1.0600	43.000	.1890-01	.2290-01	.2179-01	.9241	.3179-03	.3664-03	.2247	1.905	527.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
615	1.002	7.940	39.97	.1384-01	204.7	1261.	92.64	.2202-01	.9716	3746.	.6415-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
615	.2418-01	.4055-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
615	.00000	.80000	1034.0	.6835-01	.8292-01	.7699-01	.9361	.1652-02	.1861-02	1.186	8.807	543.2
615	.00000	.85000	1035.0	.5872-01	.7129-01	.6689-01	.9307	.1420-02	.1617-02	1.015	7.793	545.6
615	.00000	.90000	1036.0	.5925-01	.7187-01	.6760-01	.9296	.1432-02	.1634-02	1.029	7.400	542.4
615	.00000	.92500	1037.0	.4580-01	.5554-01	.5239-01	.9283	.1107-02	.1266-02	.7961	6.576	541.8
615	.00000	.95000	1038.0	.4743-01	.5752-01	.5439-01	.9270	.1147-02	.1315-02	.8239	6.804	542.2
615	.00000	.97500	1039.0	.3791-01	.4602-01	.4362-01	.9257	.9165-03	.1055-02	.6551	6.340	545.8
615	.00000	1.0150	40.000	.2502-01	.3026-01	.2880-01	.9242	.6049-03	.6962-03	.4405	3.290	532.4
615	.00000	1.0300	41.000	.2604-01	.3149-01	.2997-01	.9242	.6295-03	.7245-03	.4588	3.428	531.9
615	.00000	1.0450	42.000	.2491-01	.3011-01	.2866-01	.9242	.6021-03	.6929-03	.4393	3.518	531.1
615	.00000	1.0600	43.000	.2081-01	.2515-01	.2394-01	.9242	.5030-03	.5789-03	.3669	3.105	531.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 231

OH84B 60-0 FUSELAGE

(R4UA39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
593	2.004	7.980	40.00	.1389-01	436.0	1303.	94.84	.4539-01	2.023	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
593	.3509-01	.2867-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
593	.00000	.80000	1034.0	.8883-01	.1081	.1002	.9362	.3117-02	.3516-02	2.282	16.72	570.4
593	.00000	.85000	1035.0	.1004	.1222	.1145	.9308	.3521-02	.4018-02	2.568	19.44	573.4
593	.00000	.90000	1036.0	.1117	.1359	.1277	.9297	.3921-02	.4481-02	2.872	20.37	570.1
593	.00000	.925 1	1037.0	.9635-01	.1172	.1104	.9284	.3381-02	.3874-02	2.475	20.15	570.5
593	.00000	.95000	1038.0	.1076	.1310	.1237	.9271	.3775-02	.4340-02	2.753	22.38	573.5
593	.00000	.97500	1039.0	.9890-01	.1207	.1142	.9258	.3470-02	.4008-02	2.499	23.74	582.6
593	.00000	1.0150	40.000	.6516-01	.7886-01	.7503-01	.9243	.2286-02	.2632-02	1.714	12.67	552.9
593	.00000	1.0300	41.000	.6209-01	.7511-01	.7147-01	.9243	.2178-02	.2508-02	1.636	12.11	551.5
593	.00000	1.0450	42.000	.6285-01	.7604-01	.7235-01	.9243	.2205-02	.2539-02	1.656	13.13	551.5
593	.00000	1.0600	43.000	.5534-01	.6697-01	.6372-01	.9243	.1942-02	.2236-02	1.456	12.19	552.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 232

OH84B 60-0 FUSELAGE

(RWUA39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
579	2.997	7.990	40.02	.1044-01	670.8	1325.	96.21	.6927-01	3.096	3842.	.1943-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
579	.4353-01	.2342-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
579	.00000	.80000	1034.0	.1901	.2333	.2155	.9362	.8272-02	.9380-02	5.916	42.53	609.5
579	.00000	.85000	1035.0	.2081	.2560	.2391	.9308	.9059-02	.1040-01	6.414	47.53	616.6
579	.00000	.90000	1036.0	.2275	.2796	.2618	.9298	.9904-02	.1139-01	7.046	48.92	613.2
579	.00000	.92500	1037.0	.1964	.2413	.2266	.9284	.8547-02	.9862-02	6.074	48.41	614.0
579	.00000	.95000	1038.0	.2134	.2626	.2472	.9271	.9289-02	.1076-01	6.565	52.22	617.9
579	.00000	.97500	1039.0	.2021	.2496	.2353	.9258	.8796-02	.1024-01	6.120	56.84	629.0
579	.00000	1.0150	40.000	.1118	.1359	.1291	.9243	.4866-02	.5621-02	3.634	26.53	577.9
579	.00000	1.0300	41.000	.1148	.1397	.1327	.9243	.4998-02	.5775-02	3.722	27.15	580.0
579	.00000	1.0450	42.000	.1181	.1437	.1365	.9243	.5141-02	.5941-02	3.826	29.89	580.5
579	.00000	1.0600	43.000	.1048	.1275	.1211	.9243	.4559-02	.5271-02	3.385	27.92	582.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 233

OH84B 60-0 FUSELAGE

(R4UA40)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
623	.4983	7.900	39.97	.1384-01	99.83	1256.	93.14	.1109-01	.4847	3737.	.3215-03	.7495-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
623	.1706-01	.5726-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
623	.00000	.80000	1034.0	.6438-01	.7795-01	.7243-01	.9361	.1099-02	.1236-02	.7925	5.915	534.2
623	.00000	.85000	1035.0	.6090-01	.7375-01	.6926-01	.9307	.1039-02	.1182-02	.7489	5.779	535.0
623	.00000	.90000	1036.0	.5814-01	.7038-01	.6625-01	.9296	.9922-03	.1130-02	.7167	5.179	533.3
623	.00000	.92500	1037.0	.4468-01	.5408-01	.5104-01	.9283	.7624-03	.8709-03	.5510	4.572	533.0
623	.00000	.95000	1038.0	.4531-01	.5484-01	.5189-01	.9270	.7731-03	.8854-03	.5584	4.633	533.4
623	.00000	.97500	1039.0	.3744-01	.4534-01	.4301-01	.9257	.6388-03	.7339-03	.4599	4.474	535.7
623	.00000	1.0150	40.000	.2089-01	.2526-01	.2404-01	.9242	.3564-03	.4103-03	.2586	1.934	530.2
623	.00000	1.0300	41.000	.2707-01	.3274-01	.3116-01	.9242	.4619-03	.5317-03	.3349	2.504	530.6
623	.00000	1.0450	42.000	.2852-01	.3450-01	.3283-01	.9242	.4867-03	.5602-03	.3529	2.827	530.6
623	.00000	1.0600	43.000	.2500-01	.3025-01	.2879-01	.9242	.4266-03	.4912-03	.3089	2.613	531.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 234

OH84B 60-0 FUSELAGE

(R4UA40)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
613	1.004	7.940	39.97	.1731-01	204.8	1260.	92.56	.2203-01	.9721	3745.	.6423-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
613	.2418-01	.4052-01

TEST DATA

RUN NUMBER	PHI.	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
613	.00000	.80000	1034.0	.6573-01	.7977-01	.7405-01	.9361	.1589-02	.1790-02	1.138	8.451	543.7
613	.00000	.85000	1035.0	.6015-01	.7304-01	.6852-01	.9307	.1454-02	.1657-02	1.038	7.967	545.8
613	.00000	.90000	1036.0	.6002-01	.7282-01	.6849-01	.9296	.1451-02	.1656-02	1.040	7.478	543.0
613	.00000	.92500	1037.0	.4584-01	.5560-01	.5244-01	.9283	.1108-02	.1268-02	.7949	6.564	542.4
613	.00000	.95000	1038.0	.4746-01	.5758-01	.5444-01	.9270	.1147-02	.1316-02	.8221	6.786	543.2
613	.00000	.97500	1039.0	.3794-01	.4608-01	.4367-01	.9257	.9173-03	.1056-02	.6539	6.325	546.8
613	.00000	1.0150	40.000	.2844-01	.3445-01	.3277-01	.9242	.6875-03	.7923-03	.4964	3.698	537.7
613	.00000	1.0300	41.000	.3275-01	.3967-01	.3774-01	.9242	.7918-03	.9124-03	.5720	4.263	537.3
613	.00000	1.0450	42.000	.3232-01	.3914-01	.3723-01	.9242	.7814-03	.9003-03	.5648	4.510	536.9
613	.00000	1.0600	43.000	.2777-01	.3364-01	.3200-01	.9242	.6715-03	.7737-03	.4851	4.093	537.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 235

OH84B 60-0 FUSELAGE

(R4UA40)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
595	2.001	7.980	40.02	.1392-01	435.8	1304.	94.91	.4537-01	2.022	3811.	.1290-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
595	.3508-01	.2869-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
595	.00000	.80000	1034.0	.9005-01	.1096	.1016	.9362	.3159-02	.3564-02	2.313	16.94	571.4
595	.00000	.85000	1035.0	.1012	.1232	.1154	.9308	.3549-02	.4050-02	2.589	19.59	574.3
595	.00000	.90000	1036.0	.1124	.1368	.1285	.9298	.3943-02	.4507-02	2.887	20.47	571.5
595	.00000	.92500	1037.0	.9398-01	.1143	.1077	.9284	.3297-02	.3779-02	2.413	19.63	571.8
595	.00000	.95000	1038.0	.1054	.1283	.1212	.9271	.3697-02	.4251-02	2.695	21.89	574.8
595	.00000	.97500	1039.0	.9896-01	.1208	.1143	.9258	.3472-02	.4010-02	2.500	23.74	583.5
595	.00000	1.0150	40.000	.7660-01	.9296-01	.8837-01	.9243	.2687-02	.3100-02	1.991	14.64	562.9
595	.00000	1.0300	41.000	.8872-01	.1077	.1024	.9243	.3112-02	.3592-02	2.298	16.89	565.2
595	.00000	1.0450	42.000	.9886-01	.1200	.1141	.9243	.3468-02	.4003-02	2.563	20.18	564.7
595	.00000	1.0600	43.000	.8718-01	.1059	.1006	.9243	.3058-02	.3530-02	2.257	18.77	565.7

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 236

OH84B 60-O FUSELAGE

(R4UA40)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
577	3.019	7.990	40.06	.6989-02	670.3	1318.	95.71	.6922-01	3.093	3832.	.1952-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
577	.4347-01	.2335-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
577	.00000	.80000	1034.0	.1963	.2408	.2225	.9363	.8531-02	.9670-02	6.076	43.76	605.4
577	.00000	.85000	1035.0	.2154	.2649	.2473	.9309	.9365-02	.1075-01	6.610	49.09	611.9
577	.00000	.90000	1036.0	.2323	.2853	.2671	.9298	.1010-01	.1161-01	7.156	49.79	609.0
577	.00000	.92500	1037.0	.2023	.2486	.2334	.9285	.8795-02	.1014-01	6.225	49.71	609.9
577	.00000	.95000	1038.0	.2189	.2693	.2534	.9272	.9515-02	.1102-01	6.698	53.39	613.7
577	.00000	.97500	1039.0	.2063	.2546	.2401	.9259	.8968-02	.1044-01	6.224	57.96	623.6
577	.00000	1.0150	40.000	.1619	.1977	.1876	.9244	.7038-02	.8155-02	5.118	37.14	590.4
577	.00000	1.0300	41.000	.1769	.2161	.2050	.9244	.7692-02	.8913-02	5.589	40.54	591.0
577	.00000	1.0450	42.000	.1760	.2149	.2039	.9244	.7649-02	.8862-02	5.563	43.25	590.3
577	.00000	1.0600	43.000	.1444	.1765	.1674	.9244	.6275-02	.7277-02	4.539	37.21	594.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
625	.5056	7.900	39.96	.1729-01	100.1	1246.	92.40	.1112-01	.4859	3723.	.3249-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
625	.1706-01	.5691-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
625	.00000	.80000	1034.0	.6403-01	.7763-01	.7210-01	.9361	.1092-02	.1230-02	.7767	5.796	534.7
625	.00000	.85000	1035.0	.6010-01	.7289-01	.6842-01	.9307	.1025-02	.1167-02	.7283	5.620	535.4
625	.00000	.90000	1036.0	.5994-01	.7265-01	.6836-01	.9296	.1023-02	.1166-02	.7283	5.262	533.5
625	.00000	.92500	1037.0	.4603-01	.5578-01	.5262-01	.9283	.7853-03	.8978-03	.5594	4.641	533.3
625	.00000	.95000	1038.0	.4684-01	.5677-01	.5369-01	.9270	.7990-03	.9160-03	.5688	4.718	533.8
625	.00000	.97500	1039.0	.3616-01	.4385-01	.4158-01	.9257	.6168-03	.7094-03	.4377	4.256	536.1
625	.00000	1.0150	40.000	.1434-01	.1738-01	.1653-01	.9242	.2447-03	.2821-03	.1743	1.302	533.1
625	.00000	1.0300	41.000	.2992-01	.3628-01	.3450-01	.9242	.5105-03	.5887-03	.3630	2.709	534.5
625	.00000	1.0450	42.000	.3608-01	.4375-01	.4161-01	.9242	.6156-03	.7099-03	.4376	3.499	534.7
625	.00000	1.0600	43.000	.3538-01	.4292-01	.4081-01	.9242	.6037-03	.6963-03	.4285	3.617	535.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 238

OH84B 60-0 FUSELAGE

(R4UA41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
611	.9967	7.940	39.96	.1384-01	204.6	1265.	92.93	.2201-01	.9711	3752.	.6391-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
611	.2418-01	.4064-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
611	.00000	.80000	1034.0	.6891-01	.8352-01	.7757-01	.9361	.1666-02	.1876-02	1.205	8.956	541.8
611	.00000	.85000	1035.0	.5982-01	.7256-01	.6810-01	.9307	.1447-02	.1647-02	1.042	8.007	544.1
611	.00000	.90000	1036.0	.5986-01	.7254-01	.6825-01	.9296	.1447-02	.1651-02	1.047	7.537	541.2
611	.00000	.92500	1037.0	.4683-01	.5675-01	.5354-01	.9283	.1133-02	.1295-02	.8200	6.778	540.6
611	.00000	.95000	1038.0	.4846-01	.5872-01	.5554-01	.9270	.1172-02	.1343-02	.8476	7.004	541.3
611	.00000	.97500	1039.0	.3827-01	.4644-01	.4402-01	.9257	.9255-03	.1065-02	.6656	6.442	545.5
611	.00000	1.0150	40.000	.2827-01	.3425-01	.3259-01	.9242	.6836-03	.7880-03	.4948	3.680	540.9
611	.00000	1.0300	41.000	.4597-01	.5571-01	.5299-01	.9242	.1112-02	.1281-02	.8038	5.977	541.5
611	.00000	1.0450	42.000	.5124-01	.6211-01	.5907-01	.9242	.1239-02	.1429-02	.8960	7.138	541.6
611	.00000	1.0600	43.000	.4753-01	.5761-01	.5480-01	.9242	.1149-02	.1325-02	.8301	6.984	542.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
597	2.013	7.980	40.02	.1392-01	434.8	1297.	94.40	.4526-01	2.018	3801.	.1294-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
597	.3501-01	.2863-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
597	.00000	.80000	1034.0	.9730-01	.1183	.1097	.9362	.3406-02	.3841-02	2.488	18.27	566.4
597	.00000	.85000	1035.0	.1052	.1281	.1200	.9308	.3684-02	.4203-02	2.677	20.30	570.1
597	.00000	.90000	1036.0	.1164	.1415	.1330	.9298	.4074-02	.4655-02	2.973	21.12	566.9
597	.00000	.92500	1037.0	.9744-01	.1185	.1116	.9284	.3411-02	.3908-02	2.489	20.30	567.1
597	.00000	.95000	1038.0	.1087	.1323	.1249	.9271	.3805-02	.4374-02	2.766	22.53	569.8
597	.00000	.97500	1039.0	.1034	.1262	.1194	.9258	.3619-02	.4178-02	2.599	24.75	578.4
597	.00000	1.0150	40.000	.1205	.1466	.1393	.9243	.4218-02	.4876-02	3.064	22.46	570.1
597	.00000	1.0300	41.000	.1407	.1714	.1627	.9243	.4926-02	.5697-02	3.570	26.14	571.9
597	.00000	1.0450	42.000	.1504	.1832	.1740	.9243	.5266-02	.6091-02	3.815	29.93	572.2
597	.00000	1.0600	43.000	.1351	.1646	.1563	.9243	.4728-02	.5471-02	3.416	28.29	574.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 240

OH84B 60-0 FUSELAGE

(R4UA41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
583	2.999	7.990	40.05	.1396-01	671.1	1325	96.21	.6930-01	3.097	3842.	.1944-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
583	.4354-01	.2341-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
583	.00000	.80000	1034.0	.1944	.2382	.2202	.9363	.8465-02	.9586-02	6.107	44.03	603.2
583	.00000	.85000	1035.0	.2139	.2627	.2454	.9309	.9314-02	.1058-01	6.644	49.36	611.3
583	.00000	.90000	1036.0	.2308	.2830	.2651	.9298	.1005-01	.1154-01	7.208	50.20	607.2
583	.00000	.92500	1037.0	.1992	.2444	.2296	.9285	.8675-02	.9996-02	6.215	49.67	608.2
583	.00000	.95000	1038.0	.2154	.2646	.2492	.9272	.9379-02	.1085-01	6.682	53.30	612.2
583	.00000	.97500	1039.0	.2023	.2495	.2353	.9259	.8809-02	.1024-01	6.171	57.45	624.2
583	.00000	1.0150	40.000	.2209	.2703	.2563	.9244	.9615-02	.1116-01	6.966	50.30	600.2
583	.00000	1.0300	41.000	.2239	.2743	.2600	.9244	.9747-02	.1132-01	7.026	50.65	603.8
583	.00000	1.0450	42.000	.2280	.2793	.2648	.9244	.9926-02	.1153-01	7.152	55.23	604.1
583	.00000	1.0600	43.000	.1969	.2414	.2288	.9244	.8573-02	.9960-02	6.164	50.25	605.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R40A42)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 3DCLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
619	.5067	7.900	39.95	.1383-01	99.45	1239.	91.88	.1105-01	.4829	3712.	.3247-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
619	.1699-01	.5689-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
619	.00000	.80000	1034.0	.6536-01	.7934-01	.7366-01	.9361	.1111-02	.1251-02	.7807	5.822	535.7
619	.00000	.85000	1035.0	.5987-01	.7269-01	.6821-01	.9307	.1017-02	.1159-02	.7142	5.508	536.6
619	.00000	.90000	1036.0	.5868-01	.7121-01	.6697-01	.9296	.9970-03	.1138-02	.7019	5.068	534.7
619	.00000	.92500	1037.0	.4535-01	.5503-01	.5190-01	.9283	.7706-03	.8818-03	.5428	4.501	534.3
619	.00000	.95000	1038.0	.4578-01	.5555-01	.5252-01	.9270	.7778-03	.8924-03	.5475	4.539	534.7
619	.00000	.97500	1039.0	.2919-01	.3545-01	.3360-01	.9257	.4960-03	.5708-03	.3481	3.384	536.8
619	.00000	1.0150	40.000	.7136-02	.8658-02	.8233-02	.9242	.1212-03	.1399-03	.8542-01	.6375	534.1
619	.00000	1.0300	41.000	.2943-01	.3573-01	.3397-01	.9242	.5001-03	.5773-03	.3515	2.621	535.8
619	.00000	1.0450	42.000	.4051-01	.4919-01	.4677-01	.9242	.6884-03	.7946-03	.4836	3.863	536.2
619	.00000	1.0600	43.000	.4196-01	.5096-01	.4845-01	.9242	.7130-03	.8232-03	.5004	4.223	536.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 242

OH84B 60-0 FUSELAGE

(R4UA42)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
617	1.002	7.940	39.97	.1731-01	206.2	1267.	93.08	.2218-01	.9787	3755.	.6431-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
617	.2428-01	.4052-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
617	.00000	.80000	1034.0	.6581-01	.7976-01	.7409-01	.9361	.1598-02	.1799-02	1.157	8.598	542.7
617	.00000	.85000	1035.0	.6062-01	.7353-01	.6901-01	.9307	.1472-02	.1676-02	1.062	8.155	545.2
617	.00000	.90000	1036.0	.6094-01	.7385-01	.6949-01	.9296	.1480-02	.1688-02	1.073	7.716	542.0
617	.00000	.92500	1037.0	.4626-01	.5605-01	.5288-01	.9283	.1123-02	.1284-02	.8147	6.731	541.5
617	.00000	.95000	1038.0	.4771-01	.5782-01	.5469-01	.9270	.1159-02	.1328-02	.8396	6.934	542.1
617	.00000	.97500	1039.0	.2807-01	.3404-01	.3228-01	.9257	.6817-03	.7838-03	.4923	4.768	544.4
617	.00000	1.0150	40.000	.1096-01	.1328-01	.1263-01	.9242	.2661-03	.3068-03	.1923	1.428	543.9
617	.00000	1.0300	41.000	.4500-01	.5460-01	.5192-01	.9242	.1093-02	.1261-02	.7877	5.844	545.9
617	.00000	1.0450	42.000	.5849-01	.7098-01	.6750-01	.9242	.1420-02	.1639-02	1.023	8.125	546.8
617	.00000	1.0600	43.000	.6228-01	.7558-01	.7186-01	.9242	.1512-02	.1745-02	1.088	9.136	547.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 243

OH84B 60-0 FUSELAGE

(R4UA72)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 8.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
591	1.988	7.980	40.01	.1391-01	433.9	1306.	95.05	.4517-01	2.013	3814.	.1283-02	.7649-01

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
591	.3501-01	.2878-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
591	.00000	.80000	1034.0	.8780-01	.1068	.9905-01	.9362	.3074-02	.3468-02	2.252	16.48	573.1
591	.00000	.85000	1035.0	.9898-01	.1205	.1129	.9308	.3466-02	.3955-02	2.532	19.15	575.1
591	.00000	.90000	1036.0	.1085	.1321	.1241	.9297	.3801-02	.4345-02	2.783	19.71	573.3
591	.00000	.92500	1037.0	.9288-01	.1130	.1065	.9284	.3252-02	.3728-02	2.381	19.36	573.5
591	.00000	.95000	1038.0	.1039	.1266	.1195	.9271	.3638-02	.4184-02	2.655	21.56	575.9
591	.00000	.97500	1039.0	.9705-01	.1184	.1121	.9258	.3398-02	.3923-02	2.459	23.37	582.1
591	.00000	1.0150	40.000	.1635	.1995	.1894	.9243	.5724-02	.6630-02	4.141	30.16	582.4
591	.00000	1.0300	41.000	.2049	.2505	.2377	.9243	.7175-02	.8321-02	5.147	37.38	588.3
591	.00000	1.0450	42.000	.2388	.2920	.2770	.9243	.8361-02	.9698-02	5.994	46.63	588.8
591	.00000	1.0600	43.000	.2105	.2576	.2443	.9243	.7372-02	.8556-02	5.265	43.23	591.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 244

OH84B 60-0 FUSELAGE

(R4UA42)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
589	3.003	7.990	40.07	.1748-01	673.7	1327.	96.36	.6957-01	3.109	3845.	.1949-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
589	.4363-01	.2339-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
589	.00000	.80000	1034.0	.1976	.2421	.2238	.9363	.8622-02	.9765-02	6.218	44.78	605.5
589	.00000	.85000	1035.0	.2146	.2636	.2462	.9309	.9361-02	.1074-01	6.671	49.50	614.0
589	.00000	.90000	1036.0	.2311	.2836	.2656	.9299	.1008-01	.1159-01	7.223	50.23	610.3
589	.00000	.92500	1037.0	.1997	.2452	.2302	.9285	.8715-02	.1005-01	6.234	49.75	611.3
589	.00000	.95000	1038.0	.2160	.2656	.2500	.9272	.9426-02	.1091-01	6.701	53.36	615.8
589	.00000	.97500	1039.0	.2027	.2503	.2359	.9259	.8845-02	.1029-01	6.176	57.38	628.4
589	.00000	1.0150	40.000	.2640	.3252	.3078	.9244	.1152-01	.1343-01	8.132	58.13	620.8
589	.00000	1.0300	41.000	.2626	.3234	.3061	.9244	.1146-01	.1336-01	8.091	57.84	620.6
589	.00000	1.0450	42.000	.2594	.3193	.3023	.9244	.1132-01	.1319-01	8.007	61.37	619.3
589	.00000	1.0600	43.000	.2223	.2737	.2591	.9244	.9701-02	.1131-01	6.853	55.48	620.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /F12
627	.5147	7.900	39.95	.1383-01	101.4	1242.	92.10	.1127-01	.4923	3717.	.3302-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
627	.1716-01	.5643-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
627	.00000	.80000	1034.0	.6509-01	.7900-01	.7334-01	.9361	.1117-02	.1259-02	.7881	5.875	536.3
627	.00000	.85000	1035.0	.5943-01	.7214-01	.6770-01	.9307	.1020-02	.1162-02	.7187	5.541	537.1
627	.00000	.90000	1036.0	.5772-01	.7003-01	.6587-01	.9296	.9906-03	.1131-02	.6996	5.050	535.5
627	.00000	.92500	1037.0	.4321-01	.5242-01	.4944-01	.9283	.7417-03	.8485-03	.5242	4.345	534.9
627	.00000	.95000	1038.0	.2120-01	.2571-01	.2432-01	.9277	.3639-03	.4173-03	.2578	2.138	533.4
627	.00000	.97500	1039.0	.9281-02	.1126-01	.1068-01	.9257	.1593-03	.1832-03	.1125	1.094	535.6
627	.00000	1.0150	40.000	.1449-01	.1762-01	.1675-01	.9242	.2488-03	.2874-03	.1740	1.294	542.0
627	.00000	1.0300	41.000	.8360-01	.1018	.9671-01	.9242	.1435-02	.1660-02	.9965	7.388	547.2
627	.00000	1.0450	42.000	.1506	.1836	.1744	.9242	.2585-02	.2993-02	1.787	14.17	550.5
627	.00000	1.0600	43.000	.1636	.1996	.1895	.9242	.2807-02	.3253-02	1.930	16.14	554.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
609	1.024	7.940	39.98	.1386-01	209.1	1261.	92.64	.2249-01	.9925	3746.	.6553-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
609	.2443-01	.4012-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
609	.00000	.80000	1034.0	.6819-01	.8276-01	.7683-01	.9362	.1666-02	.1877-02	1.193	8.855	544.8
609	.00000	.85000	1035.0	.6367-01	.7730-01	.7252-01	.9308	.1556-02	.1772-02	1.112	8.536	545.8
609	.00000	.90000	1036.0	.6046-01	.7337-01	.6900-01	.9297	.1477-02	.1686-02	1.059	7.605	544.2
609	.00000	.92500	1037.0	.4655-01	.5648-01	.5326-01	.9284	.1137-02	.1301-02	.8155	6.731	543.7
609	.00000	.95000	1038.0	.3413-01	.4139-01	.3914-01	.9271	.8339-03	.9563-03	.5990	4.947	542.3
609	.00000	.97500	1039.0	.1408-01	.1709-01	.1619-01	.9258	.3440-03	.3957-03	.2462	2.384	544.9
609	.00000	1.0150	40.000	.7528-01	.9179-01	.8715-01	.9242	.1839-02	.2130-02	1.289	9.497	559.9
609	.00000	1.0300	41.000	.2362	.2892	.2743	.9242	.5772-02	.6702-02	3.974	29.10	572.2
609	.00000	1.0450	42.000	.3341	.4095	.3882	.9242	.8163-02	.9486-02	5.590	43.77	575.9
609	.00000	1.0600	43.000	.2953	.3622	.3434	.9242	.7217-02	.8391-02	4.926	40.72	578.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
599	1.990	7.980	40.04	.1744-01	435.0	1307.	95.13	.4528-01	2.019	3815.	.1285-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
599	.3506-01	.2876-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
599	.00000	.80000	1034.0	.9429-01	.1145	.1063	.9363	.3306-02	.3726-02	2.444	17.94	567.4
599	.00000	.85000	1035.0	.1033	.1257	.1178	.9309	.3623-02	.4130-02	2.665	20.19	571.2
599	.00000	.90000	1036.0	.1140	.1385	.1302	.9298	.3998-02	.4565-02	2.951	20.95	568.4
599	.00000	.92500	1037.0	.9571-01	.1163	.1096	.9285	.3356-02	.3842-02	2.476	20.18	568.7
599	.00000	.95000	1038.0	.1073	.1305	.1233	.9272	.3762-02	.4322-02	2.765	22.50	571.7
599	.00000	.97500	1039.0	.9588-01	.1169	.1106	.9259	.3362-02	.3878-02	2.445	23.27	579.4
599	.00000	1.0150	40.000	.2993	.3683	.3487	.9244	.1050-01	.1223-01	7.320	52.62	609.2
599	.00000	1.0300	41.000	.3707	.4574	.4327	.9244	.1300-01	.1517-01	8.959	64.15	617.4
599	.00000	1.0450	42.000	.3546	.4369	.4135	.9244	.1243-01	.1450-01	8.627	66.34	612.8
599	.00000	1.0600	43.000	.2985	.3678	.3481	.9244	.1047-01	.1220-01	7.259	58.96	613.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 248

OH84B 60-0 FUSELAGE

(R4UA43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
585	2.982	7.990	40.06	.1397-01	669.7	1328.	96.43	.6916-01	3.091	3846.	.1936-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
585	.4351-01	.2347-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
585	.00000	.80000	1034.0	.1939	.2375	.2196	.9363	.8438-02	.9555-02	6.105	44.00	604.2
585	.00000	.85000	1035.0	.2130	.2615	.2443	.9309	.9266-02	.1063-01	6.630	49.23	612.2
585	.00000	.90000	1036.0	.2312	.2836	.2656	.9298	.1006-01	.1156-01	7.235	50.36	608.5
585	.00000	.92500	1037.0	.2011	.2467	.2317	.9285	.8748-02	.1008-01	6.281	50.17	609.6
585	.00000	.95000	1038.0	.2171	.2668	.2511	.9272	.9447-02	.1093-01	6.742	53.73	614.0
585	.00000	.97500	1039.0	.1986	.2449	.2309	.9259	.8640-02	.1005-01	6.067	56.44	625.6
585	.00000	1.0150	40.000	.3663	.4545	.4293	.9244	.1594-01	.1868-01	10.90	77.09	643.6
585	.00000	1.0300	41.000	.3496	.4338	.4097	.9244	.1521-01	.1783-01	10.41	73.62	643.3
585	.00000	1.0450	42.000	.3392	.4205	.3973	.9244	.1476-01	.1728-01	10.14	76.92	640.7
585	.00000	1.0600	43.000	.2901	.3597	.3398	.9244	.1262-01	.1478-01	8.657	69.35	641.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 249

OH84B 60-0 FUSELAGE

(R4UA44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = 23.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
629	.5153	7.900	39.96	.1729-01	101.8	1244.	92.25	.1131-01	.4940	3720.	.3309-03	.7423-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
629	.1720-01	.5638-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
629	.00000	.80000	1034.0	.6502-01	.7888-01	.7324-01	.9361	.1118-02	.1260-02	.7916	5.903	535.8
629	.00000	.85000	1035.0	.6317-01	.7664-01	.7193-01	.9307	.1086-02	.1237-02	.7683	5.925	536.5
629	.00000	.90000	1036.0	.5757-01	.6982-01	.6568-01	.9296	.9902-03	.1130-02	.7022	5.071	534.5
629	.00000	.92500	1037.0	.2193-01	.2657-01	.2507-01	.9283	.3771-03	.4311-03	.2683	2.228	532.1
629	.00000	.95000	1038.0	.2179-01	.2641-01	.2498-01	.9270	.3748-03	.4296-03	.2665	2.212	532.6
629	.00000	.97500	1039.0	.2272-01	.2757-01	.2613-01	.9257	.307-03	.4494-03	.2763	2.686	536.6
629	.00000	1.0150	40.000	.3686-01	.4492-01	.4266-01	.9242	.6339-03	.7337-03	.4391	3.250	550.9
629	.00000	1.0300	41.000	.1950	.2384	.2263	.9242	.3354-02	.3891-02	2.293	16.89	560.1
629	.00000	1.0450	42.000	.3833	.4700	.4456	.9242	.6592-02	.7664-02	4.443	34.90	569.6
629	.00000	1.0600	43.000	.3690	.4530	.4293	.9242	.6346-02	.7384-02	4.256	35.27	573.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 250

OH84B 60-0 FUSELAGE

(R4UA44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
607	.9872	7.940	39.96	.1383-01	205.3	1276.	93.74	.2208-01	.9744	376C.	.6358-03	.7543-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
607	.2426-01	.4078-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
607	.00000	.80000	1034.0	.6563-01	.7949-01	.7385-01	.9361	.1592-02	.1792-02	1.165	8.651	544.0
607	.00000	.85000	1035.0	.6390-01	.7743-01	.7270-01	.9307	.1550-02	.1764-02	1.132	8.692	545.4
607	.00000	.90000	1036.0	.6048-01	.7324-01	.6893-01	.9296	.1467-02	.1672-02	1.075	7.725	543.4
607	.00000	.92500	1037.0	.3525-01	.4266-01	.4026-01	.9283	.8553-03	.9768-03	.6285	5.194	540.9
607	.00000	.95000	1038.0	.2289-01	.2770-01	.2621-01	.9270	.5554-03	.6359-03	.4084	3.376	540.3
607	.00000	.97500	1039.0	.2962-01	.3589-01	.3404-01	.9257	.7185-03	.8258-03	.5242	5.072	546.1
607	.00000	1.0150	40.000	.1525	.1862	.1768	.9242	.3699-02	.4288-02	2.602	19.05	572.2
607	.00000	1.0300	41.000	.4296	.5284	.5005	.9242	.1042-01	.1214-01	7.110	51.51	593.4
607	.00000	1.0450	42.000	.4920	.6057	.5736	.9242	.1194-01	.1392-01	8.117	62.94	595.7
607	.00000	1.0600	43.000	.3955	.4866	.4609	.9242	.9596-02	.1118-01	6.543	53.66	593.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 251

OH84B 60-0 FUSELAGE

(R4UA44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 23.50 SPDBRK = .0000-

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
601	1.999	7.980	39.99	.1388-01	435.3	1304.	94.91	.4531-01	2.020	3811.	.1289-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
601	.3506-01	.2871-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
601	.00000	.80000	1034.0	.9020-01	.1097	.1018	.9362	.3162-02	.3568-02	2.315	16.96	571.6
601	.00000	.85000	1035.0	.1026	.1250	.1171	.9308	.3598-02	.4106-02	2.624	19.85	574.5
601	.00000	.90000	1036.0	.1135	.1381	.1297	.9297	.3980-02	.4549-02	2.914	20.65	571.6
601	.00000	.92500	1037.0	.9681-01	.1178	.1110	.9284	.3394-02	.3891-02	2.484	20.21	572.0
601	.00000	.95000	1038.0	.1050	.1278	.1207	.9271	.3681-02	.4232-02	2.683	21.80	574.6
601	.00000	.97500	1039.0	.9944-01	.1215	.1149	.9258	.3487-02	.4029-02	2.507	23.80	584.5
601	.00000	1.0150	40.000	.4111	.5121	.4833	.9243	.1442-01	.1695-01	9.534	67.45	642.3
601	.00000	1.0300	41.000	.4971	.6216	.5860	.9243	.1743-01	.2055-01	11.35	79.86	652.7
601	.00000	1.0450	42.000	.4651	.5800	.5472	.9243	.1631-01	.1919-01	10.73	81.20	645.7
601	.00000	1.0600	43.000	.3882	.4838	.4565	.9243	.1361-01	.1601-01	8.976	71.83	644.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 252

OH84B 60-0 FUSELAGE

(R4UA44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 5	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
587	3.006	7.990	40.06	.1398-01	671.3	1323.	96.07	.6933-01	3.098	3839.	.1948-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
587	.4353-01	.2339-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
587	.00000	.80000	1034.0	.1954	.2391	.2211	.9363	.8505-02	.9627-02	6.147	44.39	600.0
587	.00000	.85000	1035.0	.2125	.2608	.2437	.9309	.9251-02	.1061-01	6.610	49.18	608.2
587	.00000	.90000	1036.0	.2318	.2840	.2661	.9298	.1009-01	.1158-01	7.250	50.57	604.0
587	.00000	.92500	1037.0	.1996	.2447	.2298	.9285	.8687-02	.1001-01	6.232	49.88	605.2
587	.00000	.95000	1038.0	.2156	.2646	.2492	.9272	.9383-02	.1085-01	6.693	53.46	609.4
587	.00000	.97500	1039.0	.1964	.2420	.2283	.9259	.8549-02	.9936-02	5.998	55.92	621.1
587	.00000	1.0150	40.000	.4598	.5763	.5427	.9244	.2001-01	.2362-01	13.09	91.46	668.6
587	.00000	1.0300	41.000	.4665	.5851	.5609	.9244	.2031-01	.2398-01	13.25	92.54	670.0
587	.00000	1.0450	42.000	.4497	.5629	.5303	.9244	.1958-01	.2308-01	12.88	96.57	664.8
587	.00000	1.0600	43.000	.3831	.4796	.4518	.9244	.1668-01	.1967-01	10.96	86.79	665.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
681	.5058	7.900	39.93	-.1034-01	101.2	1255.	93.06	.1125-01	.4913	3736.	.3262-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
681	.1718-01	.5684-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
681	.00000	.80000	1034.0	.6482-01	.7854-01	.7297-01	.9360	.1113-02	.1253-02	.8000	5.964	536.2
681	.00000	.85000	1035.0	.6290-01	.7623-01	.7158-01	.9306	.1080-02	.1230-02	.7753	5.977	537.1
681	.00000	.90000	1036.0	.5934-01	.7187-01	.6765-01	.9295	.1019-02	.1162-02	.7339	5.299	534.7
681	.00000	.92500	1037.0	.4645-01	.5625-01	.5308-01	.9282	.7979-03	.9119-03	.5747	4.765	534.4
681	.00000	.95000	1038.0	.4788-01	.5798-01	.5486-01	.9269	.8224-03	.9424-03	.5922	4.910	534.5
681	.00000	.97500	1039.0	.3755-01	.4551-01	.4316-01	.9256	.6450-03	.7414-03	.4626	4.496	537.4
681	.00000	1.0150	40.000	.2065-01	.2498-01	.2378-01	.9241	.3547-03	.4084-03	.2568	1.920	530.6
681	.00000	1.0300	41.000	.2375-01	.2873-01	.2735-01	.9241	.4080-03	.4698-03	.2957	2.212	529.9
681	.00000	1.0450	42.000	.2291-01	.2770-01	.2637-01	.9241	.3935-03	.4530-03	.2855	2.289	529.1
681	.00000	1.0600	43.000	.1853-01	.2241-01	.2134-01	.9241	.3183-03	.3665-03	.2306	1.953	530.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BOFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
667	1.005	7.940	39.96	-.6922-02	205.3	1261.	92.64	.2208-01	.9744	3746.	.6433-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
667	.2421-01	.4049-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
667	.00000	.80000	1034.0	.6937-01	.8424-01	.7819-01	.9361	.1680-02	.1893-02	1.200	8.902	546.2
667	.00000	.85000	1035.0	.6111-01	.7425-01	.6965-01	.9307	.1479-02	.1686-02	1.054	8.079	548.3
667	.00000	.90000	1036.0	.6040-01	.7331-01	.6895-01	.9296	.1462-02	.1669-02	1.046	7.516	545.1
667	.00000	.92500	1037.0	.4723-01	.5732-01	.5405-01	.9283	.1144-02	.1309-02	.8192	6.758	544.4
667	.00000	.95000	1038.0	.4867-01	.5908-01	.5585-01	.9270	.1178-02	.1352-02	.8438	6.960	544.7
667	.00000	.97500	1039.0	.3828-01	.4651-01	.4407-01	.9257	.9269-03	.1067-02	.6606	6.386	547.9
667	.00000	1.0150	40.000	.2163-01	.2617-01	.2491-01	.9242	.5238-03	.6030-03	.3807	2.841	533.9
667	.00000	1.0300	41.000	.2420-01	.2929-01	.2787-01	.9242	.5860-03	.6748-03	.4258	3.178	534.1
667	.00000	1.0450	42.000	.2282-01	.2760-01	.2627-01	.9242	.5524-03	.6360-03	.4015	3.211	533.8
667	.00000	1.0600	43.000	.1880-01	.2274-01	.2164-01	.9242	.4551-03	.5240-03	.3307	2.794	534.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = -5.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
687	1.992	7.980	40.00	-.6947-02	434.9	1306.	95.05	.4527-01	2.018	3814.	.1285-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
687	.3505-01	.2875-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
687	.00000	.80000	1034.0	.9013-01	.1095	.1016	.9362	.3160-02	.3562-02	2.328	17.08	568.7
687	.00000	.85000	1035.0	.9704-01	.1180	.1107	.9308	.3402-02	.3879-02	2.499	18.94	570.9
687	.00000	.90000	1036.0	.1075	.1306	.1228	.9297	.3768-02	.4304-02	2.779	19.73	568.2
687	.00000	.92500	1037.0	.9290-01	.1129	.1064	.9284	.3257-02	.3729-02	2.401	19.58	568.3
687	.00000	.95000	1038.0	.1027	.1249	.1180	.9271	.3600-02	.4135-02	2.646	21.55	570.6
687	.00000	.97500	1039.0	.9756-01	.1189	.1125	.9258	.3420-02	.3945-02	2.489	23.70	577.9
687	.00000	1.0150	40.000	.5674-01	.6856-01	.6526-01	.9243	.1989-02	.2288-02	1.506	11.16	548.5
687	.00000	1.0300	41.000	.5879-01	.7106-01	.6763-01	.9243	.2061-02	.2371-02	1.558	11.54	549.6
687	.00000	1.0450	42.000	.6037-01	.7299-01	.6946-01	.9243	.2116-02	.2435-02	1.599	12.68	550.1
687	.00000	1.0600	43.000	.5374-01	.6439-01	.6185-01	.9243	.1884-02	.2168-02	1.421	11.90	551.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 256

OH84B 60-0 FUSELAGE

(R4UA45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
701	2.998	7.990	40.05	-.6978-02	669.5	1323.	96.07	.6914-01	3.090	3839.	.1942-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
701	.4347-01	.2342-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
701	.00000	.80000	1034.0	.1861	.2283	.2109	.9363	.8088-02	.9169-02	5.782	41.60	607.8
701	.00000	.85000	1035.0	.2070	.2545	.2376	.9309	.8998-02	.1033-01	6.371	47.26	614.6
701	.00000	.90000	1036.0	.2247	.2760	.2584	.9298	.9767-02	.1123-01	6.942	48.24	611.8
701	.00000	.92500	1037.0	.1960	.2409	.2261	.9285	.8519-02	.9829-02	6.045	48.19	613.1
701	.00000	.95000	1038.0	.2118	.2607	.2453	.9272	.9209-02	.1066-01	6.499	51.72	617.0
701	.00000	.97500	1039.0	.1998	.2468	.2326	.9259	.8686-02	.1011-01	6.038	56.12	627.5
701	.00000	1.0150	40.000	.1106	.1344	.1277	.9244	.4808-02	.5553-02	3.588	26.21	576.6
701	.00000	1.0300	41.000	.1152	.1402	.1331	.9244	.5008-02	.5787-02	3.718	27.12	580.2
701	.00000	1.0450	42.000	.1198	.1459	.1385	.9244	.5208-02	.6022-02	3.858	30.12	582.0
701	.00000	1.0600	43.000	.1064	.1296	.1230	.9244	.4625-02	.5349-02	3.415	28.14	584.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 257

OH84B 60-0 FUSELAGE

(R4UA46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
679	.5025	7.900	39.97	-.6923-02	100.5	1255.	93.06	.1117-01	.4881	3736.	.3241-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
679	.1712-01	.5703-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
679	.00000	.80000	1034.0	.6298-01	.7633-01	.7090-01	.9361	.1078-02	.1214-02	.7735	5.764	537.3
679	.00000	.85000	1035.0	.6028-01	.7307-01	.6860-01	.9307	.1032-02	.1175-02	.7396	5.699	538.0
679	.00000	.90000	1036.0	.5813-01	.7042-01	.6627-01	.9296	.9952-03	.1135-02	.7153	5.161	536.0
679	.00000	.92500	1037.0	.4390-01	.5318-01	.5018-01	.9283	.7517-03	.8591-03	.5404	4.478	535.7
679	.00000	.95000	1038.0	.4481-01	.5428-01	.5135-01	.9270	.7672-03	.8791-03	.5515	4.569	535.8
679	.00000	.97500	1039.0	.3645-01	.4419-01	.4190-01	.9257	.6241-03	.7174-03	.4471	4.344	538.2
679	.00000	1.0150	40.000	.2099-01	.2540-01	.2417-01	.9242	.3593-03	.4139-03	.2593	1.937	533.0
679	.00000	1.0300	41.000	.2661-01	.3221-01	.3065-01	.9242	.4555-03	.5247-03	.3286	2.454	533.2
679	.00000	1.0450	42.000	.2707-01	.3276-01	.3118-01	.9242	.4634-03	.5338-03	.3344	2.675	533.1
679	.00000	1.0600	43.000	.2388-01	.2891-01	.2751-01	.9242	.4088-03	.4710-03	.2946	2.490	534.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 258

OH84B 60-0 FUSELAGE

(R4UA46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
665	1.003	7.940	39.97	-1.732-01	205.8	1265.	92.93	.2213-01	.9768	3752.	.6429-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
665	.2425-01	.4052-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT -DEG. R /SEC	TW DEG. R
665	.00000	.80000	1034.0	.6265-01	.7625-01	.7070-01	.9361	.1520-02	.1715-02	1.078	7.960	555.3
665	.00000	.85000	1035.0	.6063-01	.7378-01	.6917-01	.9307	.1470-02	.1678-02	1.043	7.966	555.5
665	.00000	.90000	1036.0	.5898-01	.7174-01	.6741-01	.9297	.1430-02	.1635-02	1.017	7.276	553.5
665	.00000	.92500	1037.0	.4607-01	.5603-01	.5280-01	.9283	.1117-02	.1281-02	.7953	6.533	553.0
665	.00000	.95000	1038.0	.4727-01	.5750-01	.5432-01	.9270	.1146-02	.1318-02	.8150	6.692	553.8
665	.00000	.97500	1039.0	.3724-01	.4533-01	.4293-01	.9257	.9032-03	.1041-02	.6400	6.161	556.1
665	.00000	1.0150	40.000	.2009-01	.2437-01	.2317-01	.9242	.4872-03	.5620-03	.3508	2.604	544.7
665	.00000	1.0300	41.000	.2738-01	.3323-01	.3160-01	.9242	.6641-03	.7664-03	.4771	3.539	546.2
665	.00000	1.0450	42.000	.2746-01	.3334-01	.3169-01	.9242	.6661-03	.7687-03	.4782	3.800	546.7
665	.00000	1.0600	43.000	.2418-01	.2936-01	.2791-01	.9242	.5865-03	.6769-03	.4208	3.532	547.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 259

OH84B 60-0 FUSELAGE

(R4UA46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
689	1.996	7.980	39.99	-1.1041-01	434.3	1303.	94.84	.4521-01	2.015	3810.	.1287-02	.7631-07
RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175										
689	.3502-01	.2873-01										

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
689	.00000	.80000	1034.0	.8968-01	.1091	.1012	.9362	.3140-02	.3543-02	2.298	16.84	570.8
689	.00000	.85000	1035.0	.1021	.1242	.1165	.9308	.3574-02	.4078-02	2.610	19.77	572.4
689	.00000	.90000	1036.0	.1113	.1354	.1273	.9297	.3898-02	.4456-02	2.854	20.24	570.7
689	.00000	.92500	1037.0	.9336-01	.1136	.1070	.9284	.3269-02	.3747-02	2.392	19.47	571.0
689	.00000	.95000	1038.0	.1034	.1259	.1189	.9271	.3620-02	.4163-02	2.640	21.47	573.4
689	.00000	.97500	1039.0	.9898-01	.1207	.1143	.9258	.3466-02	.4001-02	2.507	23.85	579.4
689	.00000	1.0150	40.000	.7741-01	.9386-01	.8926-01	.9243	.2710-02	.3126-02	2.014	14.84	559.6
689	.00000	1.0300	41.000	.8762-01	.1063	.1011	.9243	.3068-02	.3540-02	2.270	16.70	562.7
689	.00000	1.0450	42.000	.9546-01	.1159	.1102	.9243	.3343-02	.3857-02	2.472	19.48	563.1
689	.00000	1.0600	43.000	.8577-01	.1042	.9901-01	.9243	.3003-02	.3467-02	2.218	18.43	564.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 260

OH84B 60-0 FUSELAGE

(R4UA46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
699	2.999	7.990	40.05	-6.984-02	670.4	1324.	96.14	.6923-01	3.094	3841.	.1944-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
699	.4351-01	.2341-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
699	.00000	.80000	1034.0	.1878	.2305	.2129	.9363	.8172-02	.9264-02	5.844	42.03	608.5
699	.00000	.85000	1035.0	.2068	.2543	.2374	.9309	.8996-02	.1033-01	6.371	47.24	615.4
699	.00000	.90000	1036.0	.2255	.2771	.2594	.9298	.9812-02	.1129-01	6.979	48.48	612.4
699	.00000	.92500	1037.0	.1941	.2385	.2239	.9285	.8443-02	.9741-02	5.996	47.80	613.5
699	.00000	.95000	1038.0	.2101	.2586	.2433	.9272	.9142-02	.1059-01	6.457	51.37	617.4
699	.00000	.97500	1039.0	.1993	.2461	.2320	.9259	.8671-02	.1009-01	6.034	56.07	627.8
699	.00000	1.0150	40.000	.1614	.1971	.1870	.9244	.7021-02	.8136-02	5.126	37.14	593.5
699	.00000	1.0300	41.000	.1621	.1982	.1880	.9244	.7055-02	.8180-02	5.131	37.13	596.3
699	.00000	1.0450	42.000	.1736	.2122	.2013	.9244	.7552-02	.8756-02	5.496	42.62	595.9
699	.00000	1.0600	43.000	.1527	.1868	.1771	.9244	.6642-02	.7705-02	4.816	39.41	598.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R40A47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 8.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
683	.5030	7.900	39.93	-.6896-02	100.5	1254.	92.99	.1117-01	.4880	3735.	.3242-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
683	.1712-01	.5700-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
683	.00000	.80000	1034.0	.6693-01	.8112-01	.7537-01	.9360	.1146-02	.1290-02	.8211	6.119	537.0
683	.00000	.85000	1035.0	.5927-01	.7186-01	.6747-01	.9306	.1015-02	.1155-02	.7261	5.595	538.0
683	.00000	.90000	1036.0	.5895-01	.7143-01	.6723-01	.9295	.1009-02	.1151-02	.7244	5.228	535.8
683	.00000	.92500	1037.0	.4633-01	.5613-01	.5297-01	.9282	.7931-03	.9067-03	.5696	4.721	535.5
683	.00000	.95000	1038.0	.4681-01	.5670-01	.5365-01	.9269	.8012-03	.9183-03	.5753	4.768	535.6
683	.00000	.97500	1039.0	.2408-01	.2919-01	.2768-01	.9256	.4122-03	.4739-03	.2954	2.872	537.0
683	.00000	1.0150	40.000	.2726-02	.3302-02	.3142-02	.9241	.4666-04	.5378-04	.3354-01	.2502	534.8
683	.00000	1.0300	41.000	.2286-01	.2771-01	.2633-01	.9241	.3913-03	.4512-03	.2804	2.090	537.1
683	.00000	1.0450	42.000	.3313-01	.4017-01	.3821-01	.9241	.5672-03	.6541-03	.4059	3.240	537.9
683	.00000	1.0600	43.000	.3624-01	.4116-01	.4181-01	.9241	.6204-03	.7157-03	.4433	3.736	539.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
669	1.010	7.940	39.95	-.1037-01	205.9	1259.	92.49	.2215-01	.9773	3743.	.6462-03	.7443-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
669	.2424-01	.4040-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
669	.00000	.80000	1034.0	.6862-01	.8332-01	.7734-01	.9361	.1663-02	.1875-02	1.187	8.808	545.2
669	.00000	.85000	1035.0	.6084-01	.7393-01	.6935-01	.9307	.1475-02	.1681-02	1.049	8.042	547.6
669	.00000	.90000	1036.0	.5989-01	.7271-01	.6838-01	.9296	.1452-02	.1657-02	1.037	7.453	544.3
669	.00000	.92500	1037.0	.4760-01	.5777-01	.5447-01	.9283	.1154-02	.1320-02	.8249	6.808	543.7
669	.00000	.95000	1038.0	.4733-01	.5744-01	.5431-01	.9270	.1147-02	.1317-02	.8201	6.767	543.9
669	.00000	.97500	1039.0	.2050-01	.2489-01	.2360-01	.9257	.4969-03	.5719-03	.3545	3.431	545.4
669	.00000	1.0150	40.000	.7550-02	.9167-02	.8716-02	.9242	.1830-03	.2113-03	.1306	.9694	545.0
669	.00000	1.0300	41.000	.3920-01	.4762-01	.4527-01	.9242	.9503-03	.1097-02	.6768	5.020	546.5
669	.00000	1.0450	42.000	.5691-01	.6916-01	.6574-01	.9242	.1379-02	.1593-02	.9804	7.785	548.0
669	.00000	1.0600	43.000	.6464-01	.7857-01	.7468-01	.9242	.1567-02	.1810-02	1.112	9.330	548.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BOFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
685	2.023	7.980	39.98	-.6930-02	434.5	1292.	94.03	.4523-01	2.016	3794.	.1298-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
685	.3497-01	.2858-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
685	.00000	.80000	1034.0	.8818-01	.1073	.9949-01	.9361	.3084-02	.3479-02	2.238	16.44	566.0
685	.00000	.85000	1035.0	.1011	.1231	.1154	.9307	.3536-02	.4035-02	2.560	19.44	567.6
685	.00000	.90000	1036.0	.1103	.1342	.1261	.9297	.3858-02	.4410-02	2.799	19.89	566.3
685	.00000	.92500	1037.0	.9502-01	.1156	.1089	.9284	.3323-02	.3809-02	2.409	19.65	566.8
685	.00000	.95000	1038.0	.1051	.1280	.1209	.9271	.3677-02	.4228-02	2.656	21.64	569.3
685	.00000	.97500	1039.0	.9979-01	.1217	.1152	.9257	.3490-02	.4029-02	2.500	23.84	575.4
685	.00000	1.0150	40.000	.1458	.1778	.1688	.9242	.5098-02	.5905-02	3.652	26.70	575.3
685	.00000	1.0300	41.000	.1815	.2218	.2104	.9242	.6347-02	.7360-02	4.516	32.93	580.2
685	.00000	1.0450	42.000	.2074	.2534	.2405	.9242	.7253-02	.8410-02	5.158	40.30	580.4
685	.00000	1.0600	43.000	.1799	.2202	.2089	.9242	.6292-02	.7305-02	4.438	36.53	586.2

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 264

OH84B 60-O FUSELAGE

(R4UA47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
703	2.990	7.990	40.01	-.6955-02	668.4	1324.	96.14	.6903-01	3.085	3841.	.1938-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
703	.4344-01	.2345-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
703	.00000	.80000	1034.0	.1906	.2336	.2160	.9362	.8278-02	.9382-02	5.941	42.78	606.0
703	.00000	.85000	1035.0	.2091	.2570	.2400	.9308	.9083-02	.1043-01	6.453	47.90	613.2
703	.00000	.90000	1036.0	.2271	.2788	.2611	.9297	.9867-02	.1134-01	7.046	49.02	609.5
703	.00000	.92500	1037.0	.1981	.2433	.2285	.9284	.8607-02	.9927-02	6.135	48.97	610.9
703	.00000	.95000	1038.0	.2146	.2639	.2484	.9271	.9322-02	.1079-01	6.609	52.65	614.7
703	.00000	.97500	1039.0	.2006	.2476	.2335	.9258	.8714-02	.1014-01	6.073	56.46	626.7
703	.00000	1.0150	40.000	.2632	.3244	.3070	.9243	.1143-01	.1334-01	8.025	57.34	621.8
703	.00000	1.0330	41.000	.2643	.3258	.3084	.9243	.1148-01	.1340-01	8.051	57.51	622.5
703	.00000	1.0450	42.000	.2617	.3225	.3052	.9243	.1137-01	.1326-01	7.978	61.08	621.8
703	.00000	1.0600	43.000	.2259	.2785	.2636	.9243	.9812-02	.1145-01	6.871	55.53	623.4

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O FUSELAGE

(R4UA48)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
675	.5021	7.900	39.94	-.6904-02	100.2	1253.	92.91	.1114-01	.4866	3733.	.3235-03	.7477-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
675	.1709-01	.5706-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
675	.00000	.80000	1034.0	.6341-01	.7691-01	.7142-01	.9361	.1084-02	.1221-02	.7736	5.760	538.8
675	.00000	.85000	1035.0	.6181-01	.7497-01	.7038-01	.9307	.1056-02	.1203-02	.7538	5.805	539.1
675	.00000	.90000	1036.0	.5743-01	.6964-01	.6552-01	.9296	.9814-03	.1120-02	.7010	5.052	538.5
675	.00000	.92500	1037.0	.3388-01	.4108-01	.3875-01	.9283	.5790-03	.6622-03	.4141	3.428	537.5
675	.00000	.95000	1038.0	.1350-01	.1636-01	.1547-01	.9270	.2307-03	.2644-03	.1653	1.370	536.0
675	.00000	.97500	1039.0	.8221-02	.9966-02	.9451-02	.9257	.1405-03	.1615-03	.1005	.9768	537.3
675	.00000	1.0150	40.000	.6162-02	.7481-02	.7114-02	.9241	.1053-03	.1216-03	.7478-01	.5557	542.5
675	.00000	1.0300	41.000	.6113-01	.7431-01	.7063-01	.9241	.1045-02	.1207-02	.7380	5.475	546.2
675	.00000	1.0450	42.000	.1299	.1581	.1502	.9241	.2220-02	.2567-02	1.560	12.38	549.9
675	.00000	1.0600	43.000	.1560	.1901	.1806	.9241	.2666-02	.3087-02	1.862	15.57	554.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 266

OH84B 60-0 FUSELAGE

(R4UA48)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
673	1.003	7.940	39.97	- .6929-02	205.6	1264.	92.86	.2211-01	.9759	3751.	.6427-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
673	.2424-01	.4052-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
673	.00000	.80000	1034.0	.6790-01	.8238-01	.7649-01	.9361	.1646-02	.1854-02	1.183	8.777	545.1
673	.00000	.85000	1035.0	.5966-01	.7244-01	.6796-01	.9307	.1446-02	.1647-02	1.036	7.948	547.1
673	.00000	.90000	1036.0	.5874-01	.7126-01	.6702-01	.9297	.1424-02	.1625-02	1.024	7.359	544.3
673	.00000	.92500	1037.0	.4268-01	.5176-01	.4882-01	.9283	.1035-02	.1183-02	.7454	6.153	543.2
673	.00000	.95000	1038.0	.2181-01	.2643-01	.2500-01	.9270	.5286-03	.6059-03	.3821	3.158	540.8
673	.00000	.97500	1039.0	.1353-01	.1642-01	.1556-01	.9257	.3280-03	.3772-03	.2359	2.284	544.5
673	.00000	1.0150	40.000	.5127-01	.6248-01	.5934-01	.9242	.1243-02	.1438-02	.8753	6.450	559.3
673	.00000	1.0300	41.000	.1988	.2430	.2306	.9242	.4819-02	.5589-02	3.351	24.58	568.4
673	.00000	1.0450	42.000	.3218	.3942	.3738	.9242	.7799-02	.9060-02	5.365	42.01	575.8
673	.00000	1.0600	43.000	.3010	.3692	.3500	.9242	.7296-02	.8483-02	4.991	41.22	579.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA48)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 ⁶	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT ³	MU LB-SEC /FT ²
691	1.993	7.980	39.99	-.6942-02	434.6	1305.	94.98	.4524-01	2.017	3913.	.1286-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
691	.3504-01	.2875-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
691	.00000	.80000	1034.0	.8873-01	.1080	.1001	.9362	.3109-02	.3508-02	2.275	16.65	573.0
691	.00000	.85000	1035.0	.9567-01	.1165	.1092	.9308	.3352-02	.3825-02	2.446	18.51	574.9
691	.00000	.90000	1036.0	.1063	.1294	.1215	.9297	.3725-02	.4258-02	2.726	19.31	572.9
691	.00000	.92500	1037.0	.9048-01	.1101	.1037	.9284	.3170-02	.3634-02	2.319	18.86	573.2
691	.00000	.95000	1038.0	.1000	.1219	.1151	.9271	.3505-02	.4031-02	2.554	20.74	576.0
691	.00000	.97500	1039.0	.8852-01	.1080	.1022	.9258	.3102-02	.3581-02	2.243	21.33	581.4
691	.00000	1.0150	40.000	.2842	.3500	.3314	.9243	.9957-02	.1161-01	6.908	49.62	610.9
691	.00000	1.0300	41.000	.3628	.4484	.4241	.9243	.1271-01	.1486-01	8.682	62.04	621.6
691	.00000	1.0450	42.000	.3539	.4371	.4135	.9243	.1240-01	.1449-01	8.503	65.18	619.0
691	.00000	1.0600	43.000	.2989	.3693	.3493	.9243	.1047-01	.1224-01	7.170	58.05	620.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA48)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
697	2.999	7.990	40.00	-.6947-02	668.9	1322.	96.00	.6908-01	3.087	3838.	.1942-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
697	.4345-01	.2342-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
697	.00000	.80000	1034.0	.1864	.2284	.2112	.9362	.8099-02	.9174-02	5.826	42.03	602.3
697	.00000	.85000	1035.0	.2107	.2587	.2418	.9308	.9155-02	.1050-01	6.520	48.48	609.5
697	.00000	.90000	1036.0	.2263	.2775	.2600	.9297	.9830-02	.1130-01	7.032	48.99	606.4
697	.00000	.92500	1037.0	.1962	.2408	.2262	.9284	.8524-02	.9826-02	6.085	48.64	607.8
697	.00000	.95000	1038.0	.2127	.2613	.2461	.9271	.9240-02	.1069-01	6.558	52.32	611.9
697	.00000	.97500	1039.0	.1975	.2436	.2298	.9258	.8583-02	.9983-02	5.999	55.89	622.6
697	.00000	1.0150	40.000	.3725	.4630	.4372	.9243	.1619-01	.1899-01	10.95	77.39	645.0
697	.00000	1.0300	41.000	.3573	.4440	.4193	.9243	.1553-01	.1822-01	10.51	74.29	644.6
697	.00000	1.0450	42.000	.3451	.4285	.4047	.9243	.1499-01	.1759-01	10.19	77.22	642.3
697	.00000	1.0600	43.000	.2990	.3714	.3508	.9243	.1299-01	.1524-01	8.800	70.42	644.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
677	.5060	7.900	39.96	-.6920-02	101.1	1254.	92.99	.1124-01	.4909	3735.	.3262-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
677	.1717-01	.5684-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
677	.00000	.80000	1034.0	.6471-01	.7842-01	.7284-01	.9361	.1111-02	.1251-02	.7964	5.936	536.8
677	.00000	.85000	1035.0	.6127-01	.7428-01	.6973-01	.9307	.1052-02	.1197-02	.7530	5.802	537.8
677	.00000	.90000	1036.0	.5638-01	.6829-01	.6427-01	.9296	.9679-03	.1103-02	.6954	5.020	535.2
677	.00000	.92500	1037.0	.1643-01	.1989-01	.1877-01	.9283	.2820-03	.3222-03	.2033	1.687	532.9
677	.00000	.95000	1038.0	.1862-01	.2254-01	.2133-01	.9270	.3196-03	.3661-03	.2302	1.909	533.5
677	.00000	.97500	1039.0	.1845-01	.2236-01	.2120-01	.9257	.3167-03	.3640-03	.2271	2.208	536.7
677	.00000	1.0150	40.000	.1759-01	.2140-01	.2033-01	.9242	.3021-03	.3491-03	.2130	1.578	548.5
677	.00000	1.0300	41.000	.1272	.1549	.1471	.9242	.2183-02	.2526-02	1.528	11.29	553.7
677	.00000	1.0450	42.000	.2828	.3454	.3279	.9242	.4856-02	.5629-02	3.360	26.50	561.7
677	.00000	1.0600	43.000	.3214	.3934	.3731	.9242	.5517-02	.6406-02	3.780	31.39	568.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
671	1.007	7.940	39.96	-.1038-01	204.7	1257.	92.34	.2202-01	.9716	3740.	.6435-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
671	.2416-01	.4047-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
671	.00000	.80000	1034.0	.6919-01	.8404-01	.7799-01	.9361	.1672-02	.1884-02	1.189	8.818	545.7
671	.00000	.85000	1035.0	.6079-01	.7389-01	.6930-01	.9307	.1469-02	.1674-02	1.041	7.983	547.8
671	.00000	.90000	1036.0	.5857-01	.7113-01	.6688-01	.9296	.1415-02	.1616-02	1.007	7.234	545.0
671	.00000	.92500	1037.0	.2572-01	.3120-01	.2942-01	.9283	.6214-03	.7109-03	.4443	3.671	541.6
671	.00000	.95000	1038.0	.2489-01	.3021-01	.2856-01	.9270	.6015-03	.6901-03	.4296	3.548	542.4
671	.00000	.97500	1039.0	.3401-01	.4135-01	.3918-01	.9257	.8218-03	.9466-03	.5818	5.623	548.6
671	.00000	1.0150	40.000	.1382	.1693	.1605	.9242	.3339-02	.3879-02	2.285	16.73	572.3
671	.00000	1.0300	41.000	.3933	.4846	.4588	.9242	.9504-02	.1109-01	6.342	46.05	589.3
671	.00000	1.0450	42.000	.4923	.6079	.5752	.9242	.1190-01	.1390-01	7.861	60.95	595.8
671	.00000	1.0600	43.000	.4061	.5014	.4745	.9242	.9813-02	.1146-01	6.490	53.18	595.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
693	2.000	7.980	40.00	-.1042-01	434.5	1302.	94.76	.4523-01	2.016	3808.	.1288-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
693	.3502-01	.2871-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
693	.00000	.80000	1034.0	.8922-01	.1086	.1007	.9362	.3125-02	.3525-02	2.282	16.72	571.2
693	.00000	.85000	1035.0	.1005	.1223	.1146	.9308	.3518-02	.4015-02	2.562	19.39	573.4
693	.00000	.90000	1036.0	.1101	.1340	.1259	.9297	.3856-02	.4408-02	2.817	19.98	571.1
693	.00000	.92500	1037.0	.9245-01	.1125	.1060	.9284	.3238-02	.3711-02	2.364	19.24	571.4
693	.00000	.95000	1038.0	.9824-01	.1196	.1130	.9271	.3440-02	.3956-02	2.505	20.37	573.5
693	.00000	.97500	1039.0	.9542-01	.1165	.1102	.9258	.3342-02	.3860-02	2.404	22.85	582.2
693	.00000	1.0150	40.000	.3947	.4900	.4629	.9243	.1382-01	.1621-01	9.245	65.70	632.8
693	.00000	1.0300	41.000	.4838	.6032	.5691	.9243	.1694-01	.1993-01	11.14	78.76	644.1
693	.00000	1.0450	42.000	.4565	.5678	.5361	.9243	.1599-01	.1877-01	10.61	80.62	637.8
693	.00000	1.0600	43.000	.3829	.4763	.4497	.9243	.1341-01	.1575-01	8.906	71.50	637.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
695	3.030	7.990	40.02	-.6963-02	669.0	1313.	95.34	.6909-01	3.087	3825.	.1956-02	.7672-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
695	.4340-01	.2332-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
695	.00000	.80000	1034.0	.1936	.2374	.2194	.9363	.8401-02	.9522-02	5.968	43.05	602.3
695	.00000	.85000	1035.0	.2139	.2630	.2456	.9308	.9283-02	.1066-01	6.531	48.58	609.1
695	.00000	.90000	1036.0	.2317	.2846	.2665	.9298	.1005-01	.1156-01	7.100	49.46	606.5
695	.00000	.92500	1037.0	.1984	.2438	.2289	.9285	.8610-02	.9933-02	6.071	48.54	607.6
695	.00000	.95000	1038.0	.2152	.2647	.2492	.9272	.9338-02	.1081-01	6.544	52.21	611.8
695	.00000	.97500	1039.0	.1997	.2466	.2325	.9258	.8669-02	.1009-01	5.989	55.81	621.8
695	.00000	1.0150	40.000	.4491	.5639	.5309	.9243	.1949-01	.2304-01	12.58	87.92	667.4
695	.00000	1.0300	41.000	.4559	.5729	.5392	.9243	.1979-01	.2340-01	12.72	88.81	669.8
695	.00000	1.0450	42.000	.4408	.5531	.5208	.9243	.1913-01	.2260-01	12.37	92.75	665.9
695	.00000	1.0600	43.000	.3745	.4701	.4426	.9243	.1625-01	.1921-01	10.50	83.08	666.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
767	.5029	7.900	39.98	-.3466-02	100.1	1251.	92.77	.1113-01	.4863	3730.	.3238-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
767	.1708-01	.5703-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
767	.00000	.80000	1034.0	.6439-01	.7817-01	.7256-01	.9362	.1100-02	.1239-02	.7802	5.802	541.2
767	.00000	.85000	1035.0	.6124-01	.7400-01	.6977-01	.9307	.1046-02	.1192-02	.7417	5.705	541.6
767	.00000	.90000	1036.0	.5888-01	.7146-01	.6720-01	.9297	.1006-02	.1148-02	.7146	5.145	540.2
767	.00000	.92500	1037.0	.4452-01	.5402-01	.5094-01	.9284	.7603-03	.8700-03	.5404	4.468	539.9
767	.00000	.95000	1038.0	.4505-01	.5468-01	.5169-01	.9271	.7694-03	.8829-03	.5464	4.517	540.5
767	.00000	.97500	1039.0	.3673-01	.4460-01	.4227-01	.9258	.6274-03	.7219-03	.4448	4.314	541.7
767	.00000	1.0150	40.000	.1911-01	.2315-01	.2202-01	.9242	.3263-03	.3761-03	.2339	1.746	534.0
767	.00000	1.0300	41.000	.2397-01	.2906-01	.2763-01	.9242	.4094-03	.4720-03	.2926	2.182	536.0
767	.00000	1.0450	42.000	.2444-01	.2964-01	.2819-01	.9242	.4175-03	.4814-03	.2979	2.378	537.2
767	.00000	1.0600	43.000	.2143-01	.2551-01	.2426-01	.9242	.3592-03	.4143-03	.2559	2.158	538.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 274

OH84B 60-0 FUSELAGE

(R4UA50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
757	1.043	7.940	39.99	-.4654-06	214.1	1265.	92.93	.2302-01	1.016	3752.	.6687-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
757	.2474-01	.3973-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
757	.00000	.80000	1034.0	.6685-01	.8128-01	.7539-01	.9362	.1653-02	.1865-02	1.177	8.707	552.6
757	.00000	.85000	1035.0	.5815-01	.7074-01	.6632-01	.9308	.1438-02	.1641-02	1.022	7.811	554.2
757	.00000	.90000	1036.0	.5803-01	.7056-01	.6631-01	.9297	.1435-02	.1640-02	1.023	7.319	552.3
757	.00000	.92500	1037.0	.4561-01	.5544-01	.5225-01	.9284	.1128-02	.1292-02	.8046	6.614	551.6
757	.00000	.95000	1038.0	.4610-01	.5505-01	.5296-01	.9271	.1140-02	.1310-02	.8124	6.675	552.3
757	.00000	.97500	1039.0	.3777-01	.4596-01	.4353-01	.9258	.9344-03	.1077-02	.6636	6.394	554.5
757	.00000	1.0150	40.000	.2172-01	.2632-01	.2504-01	.9243	.5371-03	.6193-03	.3879	2.883	542.4
757	.00000	1.0300	41.000	.2746-01	.3330-01	.3167-01	.9243	.6792-03	.7833-03	.4899	3.639	543.5
757	.00000	1.0450	42.000	.2684-01	.3255-01	.3096-01	.9243	.6640-03	.7658-03	.4787	3.809	543.8
757	.00000	1.0600	43.000	.2395-01	.2904-01	.2762-01	.9243	.5923-03	.6831-03	.4266	3.586	544.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
755	1.966	7.980	40.06	-1.4684-06	429.7	1307.	95.13	.4474-01	1.994	3815.	.1269-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) #.0175
755	.3485-01	.2894-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
755	.00000	.80000	1034.0	.8601-01	.1046	.9697-01	.9363	.2998-02	.3379-02	2.207	16.17	570.6
755	.00000	.85000	1035.0	.9688-01	.1179	.1105	.9309	.3376-02	.3850-02	2.479	18.77	572.5
755	.00000	.90000	1036.0	.1055	.1283	.1205	.9298	.3677-02	.4200-02	2.707	19.20	570.4
755	.00000	.92500	1037.0	.9093-01	.1106	.1041	.9285	.3169-02	.3630-02	2.331	18.98	571.0
755	.00000	.95000	1038.0	.1006	.1225	.1157	.9272	.3508-02	.4031-02	2.571	20.90	573.6
755	.00000	.97500	1039.0	.9473-01	.1155	.1093	.9259	.3301-02	.3809-02	2.398	22.81	580.4
755	.00000	1.0150	40.000	.7460-01	.9049-01	.8602-01	.9244	.2600-02	.2998-02	1.935	14.24	562.3
755	.00000	1.0300	41.000	.8465-01	.1027	.9766-01	.9244	.2950-02	.3403-02	2.189	16.09	564.7
755	.00000	1.0450	42.000	.9294-01	.1128	.1072	.9244	.3239-02	.3737-02	2.403	18.92	564.8
755	.00000	1.0600	43.000	.8025-01	.9748-01	.9263-01	.9244	.2797-02	.3228-02	2.068	17.18	567.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT ³	MU LB-SEC /FT ²
745	3.041	7.990	40.06	-34.95-02	670.5	1312.	95.27	.6924-01	3.094	3823.	.1962-02	.7666-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
745	.4344-01	.2328-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
745	.00000	.80000	1034.0	.1956	.2401	.2218	.9363	.8496-02	.9633-02	6.011	43.33	604.1
745	.00000	.85000	1035.0	.2160	.2657	.2481	.9309	.9385-02	.1078-01	6.581	48.91	610.5
745	.00000	.90000	1036.0	.2314	.2844	.2662	.9298	.1005-01	.1157-01	7.075	49.25	607.9
745	.00000	.92500	1037.0	.2025	.2489	.2336	.9285	.8795-02	.1015-01	6.178	49.35	609.2
745	.00000	.95000	1038.0	.2173	.2675	.2517	.9272	.9441-02	.1093-01	6.596	52.59	613.0
745	.00000	.97500	1039.0	.2045	.2526	.2380	.9259	.8882-02	.1034-01	6.116	56.97	623.0
745	.00000	1.0150	40.000	.1538	.1878	.1782	.9244	.6680-02	.7740-02	4.838	35.15	587.5
745	.00000	1.0300	41.000	.1653	.2022	.1917	.9244	.7182-02	.8329-02	5.169	37.48	592.0
745	.00000	1.0450	42.000	.1742	.2129	.2019	.9244	.7567-02	.8772-02	5.462	42.48	589.8
745	.00000	1.0600	43.000	.1446	.1770	.1678	.9244	.6282-02	.7289-02	4.507	36.95	594.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
765	.5049	7.900	39.98	-.3466-02	100.4	1250.	92.69	.1116-01	.4875	3729.	.3249-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
765	.1710-01	.5692-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
765	.00000	.80000	1034.0	.6777-01	.8217-01	.7631-01	.9362	.1159-02	.1305-02	.8262	6.159	536.6
765	.00000	.85000	1035.0	.5851-01	.7099-01	.6862-01	.9307	.1000-02	.1139-02	.7113	5.479	538.7
765	.00000	.90000	1036.0	.5789-01	.7015-01	.6600-01	.9297	.9898-03	.1129-02	.7074	5.107	535.0
765	.00000	.92500	1037.0	.2962-01	.3586-01	.3384-01	.9284	.5065-03	.5786-03	.3637	3.020	531.5
765	.00000	.95000	1038.0	.1424-01	.1724-01	.1631-01	.9271	.2434-03	.2789-03	.1745	1.449	532.7
765	.00000	.97500	1039.0	.8570-02	.1039-01	.9852-02	.9258	.1465-03	.1685-03	.1045	1.016	536.7
765	.00000	1.0150	40.000	.5376-03	.6531-03	.6208-03	.9242	.9193-05	.1061-04	.6498-02	.4829-01	542.8
765	.00000	1.0300	41.000	.4817-01	.5859-01	.5567-01	.9242	.8237-03	.9520-03	.5787	4.291	547.1
765	.00000	1.0450	42.000	.1111	.1353	.1285	.9242	.1899-02	.2197-02	1.327	10.52	551.0
765	.00000	1.0600	43.000	.1459	.1779	.1689	.9242	.2494-02	.2889-02	1.730	14.45	556.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
759	1.001	7.940	39.99	-.4655-06	206.7	1270.	93.30	.2224-01	.9813	3760.	.6433-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
759	.2433-01	.4053-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R* TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
759	.00000	.80000	1034.0	.6501-01	.7894-01	.7326-01	.9362	.1581-02	.1782-02	1.137	8.418	550.5
759	.00000	.85000	1035.0	.5941-01	.7218-01	.6770-01	.9308	.1445-02	.1647-02	1.037	7.935	552.1
759	.00000	.90000	1036.0	.5951-01	.7225-01	.6793-01	.9297	.1448-02	.1652-02	1.042	7.467	549.8
759	.00000	.92500	1037.0	.3808-01	.4621-01	.4357-01	.9284	.9264-03	.1060-02	.6685	5.505	548.0
759	.00000	.95000	1038.0	.1804-01	.2188-01	.2069-01	.9271	.4389-03	.5032-03	.3178	2.620	545.6
759	.00000	.97500	1039.0	.1122-01	.1362-01	.1291-01	.9258	.2731-03	.3141-03	.1970	1.904	548.1
759	.00000	1.0150	40.000	.4285-01	.5216-01	.4955-01	.9243	.1042-02	.1205-02	.7410	5.462	558.8
759	.00000	1.0300	41.000	.1777	.2170	.2060	.9243	.4324-02	.5010-02	3.033	22.25	568.1
759	.00000	1.0450	42.000	.3061	.3749	.3555	.9243	.7447-02	.8648-02	5.158	40.36	577.1
759	.00000	1.0600	43.000	.2974	.3649	.3458	.9243	.7235-02	.8413-02	4.970	40.99	582.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 5	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
753	2.020	7.980	40.04	-4678-06	434.4	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
753	.3498-01	.2859-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
753	.00000	.80000	1034.0	.8839-01	.1077	.9977-01	.9363	.3092-02	.3490-02	2.232	16.36	570.6
753	.00000	.85000	1035.0	.9910-01	.1208	.1131	.9309	.3466-02	.3957-02	2.496	18.90	572.6
753	.00000	.90000	1036.0	.1095	.1334	.1252	.9298	.3829-02	.4380-02	2.764	19.60	570.8
753	.00000	.92500	1037.0	.9402-01	.1145	.1078	.9285	.3288-02	.3772-02	2.373	19.31	571.1
753	.00000	.95000	1038.0	.1047	.1276	.1204	.9272	.3660-02	.4212-02	2.632	21.40	573.5
753	.00000	.97500	1039.0	.9785-01	.1195	.1131	.9259	.3422-02	.3954-02	2.437	23.18	580.6
753	.00000	1.0150	40.000	.1166	.1422	.1350	.9244	.4078-02	.4720-02	2.932	21.45	573.8
753	.00000	1.0300	41.000	.1400	.1709	.1622	.9244	.4898-02	.5673-02	3.501	25.57	577.7
753	.00000	1.0450	42.000	.1474	.1801	.1708	.9244	.5157-02	.5976-02	3.679	28.76	579.3
753	.00000	1.0600	43.000	.1364	.1668	.1582	.9244	.4772-02	.5533-02	3.390	27.96	582.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 280

OH84B 60-0 FUSELAGE

(R4UA51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
747	2.979	7.990	40.06	-1.4686-06	660.0	1316.	95.56	.6816-01	3.046	3829.	.1925-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
747	.4312-01	.2351-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
747	.00000	.80000	1034.0	.1878	.2304	.2129	.9363	.8100-02	.9179-02	5.774	41.64	602.9
747	.00000	.85000	1035.0	.2072	.2547	.2379	.9309	.8937-02	.1026-01	6.312	46.94	609.4
747	.00000	.90000	1036.0	.2250	.2763	.2587	.9298	.9703-02	.1116-01	6.879	47.92	606.7
747	.00000	.92500	1037.0	.1969	.2418	.2270	.9285	.8489-02	.9790-02	6.008	48.02	608.0
747	.00000	.95000	1038.0	.2123	.2611	.2457	.9272	.9154-02	.1060-01	6.445	51.42	611.7
747	.00000	.97500	1039.0	.2004	.2472	.2331	.9259	.8640-02	.1005-01	5.999	55.92	621.3
747	.00000	1.0150	40.000	.1867	.2282	.2164	.9244	.8053-02	.9334-02	5.837	42.34	590.9
747	.00000	1.0300	41.000	.1913	.2340	.2219	.9244	.8248-02	.9567-02	5.946	43.05	594.7
747	.00000	1.0450	42.000	.1911	.2339	.2218	.9244	.8243-02	.9563-02	5.936	46.03	595.6
747	.00000	1.0600	43.000	.1682	.2060	.1953	.9244	.7254-02	.8422-02	5.203	42.57	598.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
763	.4981	7.900	39.97	-.3462-02	99.31	1252.	92.84	.1104-01	.4822	3732.	.3209-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
763	.1701-01	.5729-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
763	.00000	.80000	1034.0	.6534-01	.7936-01	.7365-01	.9361	.1111-02	.1253-02	.7876	5.852	543.1
763	.00000	.85000	1035.0	.5600-01	.6802-01	.6381-01	.9307	.9526-03	.1085-02	.6747	5.185	543.4
763	.00000	.90000	1036.0	.4454-01	.5407-01	.5085-01	.9296	.7576-03	.8649-03	.5377	3.869	541.9
763	.00000	.92500	1037.0	.1239-01	.1503-01	.1418-01	.9283	.2108-03	.2411-03	.1502	1.243	539.1
763	.00000	.95000	1038.0	.1814-01	.2201-01	.2081-01	.9270	.3085-03	.3539-03	.2194	1.814	540.5
763	.00000	.97500	1039.0	.1903-01	.2310-01	.2189-01	.9257	.3235-03	.3724-03	.2297	2.228	541.9
763	.00000	1.0150	40.000	.1666-01	.2029-01	.1927-01	.9242	.2834-03	.3278-03	.1984	1.468	551.6
763	.00000	1.0300	41.000	.1187	.1448	.1375	.9242	.2019-02	.2338-02	1.403	10.35	556.9
763	.00000	1.0450	42.000	.2758	.3374	.3201	.9242	.4692-02	.5444-02	3.219	25.34	565.5
763	.00000	1.0600	43.000	.3273	.4014	.3806	.9242	.5567-02	.6473-02	3.774	31.25	573.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
761	1.006	7.940	39.99	-.4652-06	206.4	1265.	92.93	.2220-01	.9799	3752.	.6449-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
761	.2429-01	.4046-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
761	.00000	.80000	1034.0	.6738-01	.8190-01	.7598-01	.9362	.1637-02	.1846-02	1.168	8.642	551.2
761	.00000	.85000	1035.0	.5763-01	.7008-01	.6571-01	.9308	.1400-02	.1596-02	.9965	7.621	552.9
761	.00000	.90000	1036.0	.5446-01	.6617-01	.6220-01	.9297	.1323-02	.1511-02	.9452	6.771	550.2
761	.00000	.92500	1037.0	.1908-01	.2315-01	.2183-01	.9284	.4634-03	.5302-03	.3330	2.745	546.1
761	.00000	.95000	1038.0	.2261-01	.2745-01	.2591-01	.9271	.5492-03	.6302-03	.3937	3.242	547.8
761	.00000	.97500	1039.0	.3319-01	.4036-01	.3823-01	.9258	.8062-03	.9287-03	.5740	5.535	552.7
761	.00000	1.0150	40.000	.1341	.1642	.1558	.9243	.3258-02	.3784-02	2.245	16.41	575.4
761	.00003	1.0300	41.000	.3769	.4644	.4395	.9243	.9156-02	.1068-01	6.148	44.55	593.1
761	.00000	1.0450	42.000	.4864	.6011	.5686	.9243	.1182-01	.1381-01	7.833	60.56	601.8
761	.00000	1.0600	43.000	.4089	.5054	.4781	.9243	.9933-02	.1161-01	6.579	53.72	602.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
751	1.967	7.980	40.06	-4.685-06	435.2	1309.	95.27	.4531-01	2.020	3818.	.1284-02	.7667-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
751	.3508-01	.2878-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
751	.00000	.80000	1034.0	.8757-01	.1065	.9873-01	.9363	.3072-02	.3464-02	2.264	16.58	571.8
751	.00000	.85000	1035.0	.9915-01	.1206	.1131	.9309	.3479-02	.3967-02	2.557	19.35	573.7
751	.00000	.90000	1036.0	.1084	.1319	.1239	.9298	.3805-02	.4347-02	2.801	19.84	572.5
751	.00000	.92500	1037.0	.9063-01	.1102	.1038	.9285	.3180-02	.3643-02	2.339	19.03	572.9
751	.00000	.95000	1038.0	.9563-01	.1164	.1099	.9272	.3355-02	.3855-02	2.464	20.02	574.4
751	.00000	.97500	1039.0	.1005	.1226	.1160	.9259	.3525-02	.4069-02	2.556	24.27	583.6
751	.00000	1.0150	40.000	.3932	.4874	.4605	.9244	.1379-01	.1616-01	9.335	66.37	631.9
751	.00000	1.0300	41.000	.4895	.6099	.5754	.9244	.1717-01	.2019-01	11.38	80.37	646.0
751	.00000	1.0450	42.000	.4684	.5826	.5499	.9244	.1643-01	.1929-01	10.98	83.26	640.8
751	.00000	1.0600	43.000	.3902	.4853	.4581	.9244	.1369-01	.1607-01	9.140	73.25	641.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UA52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
749	2.958	7.990	40.06	-4686-06	659.9	1322.	96.00	.6815-01	3.045	3838.	.1916-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
749	.4315-01	.2358-01

TEST DATA

RUN NUMBER	PHI	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
749	.00000	.80000	1034.0	.1865	.2284	.2112	.9363	.8047-02	.9113-02	5.789	41.76	602.2
749	.00000	.85000	1035.0	.2066	.2536	.2369	.9309	.8915-02	.1023-01	6.352	47.25	609.1
749	.00000	.90000	1036.0	.2228	.2734	.2560	.9298	.9616-02	.1105-01	6.872	47.86	607.0
749	.00000	.92500	1037.0	.1950	.2394	.2248	.9285	.8415-02	.9700-02	6.001	47.96	608.5
749	.00000	.95000	1038.0	.2104	.2586	.2434	.9272	.9080-02	.1050-01	6.437	51.34	612.7
749	.00000	.97500	1039.0	.1953	.2408	.2271	.9259	.8427-02	.9799-02	5.893	54.91	622.4
749	.00000	1.0150	40.000	.4349	.5448	.5131	.9244	.1877-01	.2214-01	12.30	86.01	666.4
749	.00000	1.0300	41.000	.4648	.5837	.5494	.9244	.2006-01	.2371-01	13.01	90.73	672.9
749	.00000	1.0450	42.000	.4497	.5639	.5310	.9244	.1941-01	.2291-01	12.66	94.78	669.1
749	.00000	1.0600	43.000	.3854	.4836	.4553	.9244	.1663-01	.1965-01	10.82	85.52	670.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB01)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 25.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = 49.00

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
5	3.644	8.000	24.96	.8346-02	847.3	1356.	98.24	.8678-01	3.888	3887.	.2384-02	.7905-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
5	.4698-01	.2119-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
5	46.800	.50000	1050.0	.4456-01	.5413-01	.5368-01	.9040	.2183-02	.2629-02	1.674	13.02	588.9
5	46.800	.60000	1051.0	.3029-01	.3677-01	.3646-01	.9040	.1484-02	.1786-02	1.142	9.963	586.1
5	46.800	.70000	1052.0	.3893-01	.4721-01	.4682-01	.9040	.1907-02	.2293-02	1.474	10.74	582.7
5	46.800	.80000	1053.0	.4707-01	.5712-01	.5664-01	.9040	.2305-02	.2774-02	1.777	12.93	584.8
5	93.600	.50000	1062.0	.5434-01	.6602-01	.6546-01	.9040	.2661-02	.3206-02	2.039	14.33	589.4
5	93.600	.60000	1063.0	.4588-01	.5574-01	.5527-01	.9040	.2247-02	.2707-02	1.722	11.37	589.2
5	93.600	.70000	1064.0	.3902-01	.4736-01	.4696-01	.9040	.1911-02	.2300-02	1.472	11.07	585.7
5	93.600	.80000	1065.0	.3770-01	.4569-01	.4531-01	.9040	.1846-02	.2219-02	1.431	10.10	580.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB02)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
157	2.008	7.980	29.94	-4.034	434.8	1299.	94.54	.4527-01	2.018	3804.	.1292-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
157	.3502-01	.2866-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
157	46.800	.50000	1050.0	.6253-01	.7609-01	.7378-01	.9144	.2190-02	.2584-02	1.596	12.54	569.8
157	46.800	.60000	1051.0	.4123-01	.5011-01	.4860-01	.9144	.1444-02	.1702-02	1.058	9.327	565.8
157	46.800	.70000	1052.0	.5015-01	.6082-01	.5901-01	.9144	.1756-02	.2067-02	1.300	9.581	558.6
157	46.800	.80000	1053.0	.4739-01	.5744-01	.5574-01	.9144	.1659-02	.1952-02	1.231	9.083	556.9
157	93.600	.50000	1062.0	.7159-01	.8711-01	.8447-01	.9144	.2507-02	.2958-02	1.828	12.97	569.6
157	93.600	.60000	1063.0	.6198-01	.7538-01	.7310-01	.9144	.2171-02	.2560-02	1.586	10.58	567.9
157	93.600	.70000	1064.0	.4972-01	.6033-01	.5853-01	.9144	.1741-02	.2050-02	1.285	9.794	560.4
157	93.600	.80000	1065.0	.4181-01	.5066-01	.4916-01	.9144	.1464-02	.1721-02	1.089	7.785	554.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB02)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
118	3.023	7.990	29.94	-4.046	673.4	1321.	95.92	.6954-01	3.108	3836.	.1957-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
118	.4359-01	.2333-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
118	46.800	.50000	1050.0	.6134-01	.7480-01	.7250-01	.9144	.2673-02	.3160-02	1.962	15.28	587.0
118	46.800	.60000	1051.0	.4057-01	.4943-01	.4792-01	.9144	.1769-02	.2089-02	1.304	11.40	583.1
118	46.800	.70000	1052.0	.4971-01	.6045-01	.5863-01	.9144	.2167-02	.2555-02	1.610	11.75	577.7
118	46.800	.80000	1053.0	.5639-01	.6857-01	.6649-01	.9144	.2458-02	.2898-02	1.829	13.36	576.7
118	93.600	.50000	1062.0	.7040-01	.8583-01	.8320-01	.9144	.3068-02	.3627-02	2.253	15.85	586.4
118	93.600	.60000	1063.0	.6050-01	.7376-01	.7150-01	.9144	.2637-02	.3116-02	1.938	12.81	585.7
118	93.600	.70000	1064.0	.5012-01	.6100-01	.5915-01	.9144	.2185-02	.2578-02	1.618	12.21	580.1
118	93.600	.80000	1065.0	.5037-01	.6176-01	.5991-01	.9144	.2217-02	.2611-02	1.660	11.77	571.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB02)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
131	3.694	8.000	29.96	-4.050	855.1	1352.	97.95	.8759-01	3.924	3881.	.2414-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
131	.4918-01	.2106-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
131	46.800	.50000	1050.0	.6117-01	.7457-01	.7228-01	.9145	.3008-02	.3555-02	2.262	17.50	599.7
131	46.800	.60000	1051.0	.4085-01	.4976-01	.4824-01	.9145	.2009-02	.2372-02	1.517	13.17	596.7
131	46.800	.70000	1052.0	.5221-01	.6354-01	.6160-01	.9145	.2568-02	.3030-02	1.948	14.11	593.2
131	46.800	.80000	1053.0	.6822-01	.8304-01	.8051-01	.9145	.3355-02	.3959-02	2.540	18.40	594.4
131	93.600	.50000	1062.0	.6992-01	.8521-01	.8260-01	.9145	.3438-02	.4062-02	2.589	18.11	598.6
131	93.600	.60000	1063.0	.6027-01	.7348-01	.7122-01	.9145	.2964-02	.3503-02	2.229	14.64	599.7
131	93.600	.70000	1064.0	.5279-01	.6430-01	.6233-01	.9145	.2596-02	.3065-02	1.960	14.67	596.7
131	93.600	.80000	1065.0	.6321-01	.7682-01	.7450-01	.9145	.3109-02	.3664-02	2.371	16.66	588.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB03)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
154	2.002	7.980	29.96	-2.027	435.4	1303.	94.84	.4533-01	2.021	3810.	.1290-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
154	.3506-01	.2869-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
154	46.800	.50000	1050.0	.5866-01	.7155-01	.6934-01	.9145	.2057-02	.2431-02	1.487	11.62	579.7
154	46.800	.60000	1051.0	.3905-01	.4760-01	.4614-01	.9145	.1369-02	.1618-02	.9940	8.714	576.8
154	46.800	.70000	1052.0	.4631-01	.5632-01	.5461-01	.9145	.1624-02	.1915-02	1.190	8.721	569.9
154	46.800	.80000	1053.0	.4475-01	.5438-01	.5274-01	.9145	.1569-02	.1849-02	1.154	8.474	567.0
154	93.600	.50000	1062.0	.6817-01	.8313-01	.8057-01	.9145	.2390-02	.2825-02	1.730	12.22	579.0
154	93.600	.60000	1063.0	.5730-01	.6998-01	.6773-01	.9145	.2009-02	.2375-02	1.455	9.652	578.7
154	93.600	.70000	1064.0	.4587-01	.5582-01	.5412-01	.9145	.1608-02	.1898-02	1.175	8.904	571.8
154	93.600	.80000	1065.0	.4046-01	.4914-01	.4766-01	.9145	.1419-02	.1671-02	1.047	7.446	564.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB03)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
115	3.006	7.990	29.95	-2.017	672.0	1324.	96.14	.6940-01	3.101	3841.	.1948-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
115	.4356-01	.2339-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
115	46.800	.50000	1050.0	.5783-01	.7053-01	.6836-01	.9145	.2519-02	.2978-02	1.851	14.40	588.9
115	46.800	.60000	1051.0	.3834-01	.4671-01	.4528-01	.9145	.1670-02	.1972-02	1.233	10.76	585.5
115	46.800	.70000	1052.0	.4698-01	.5717-01	.5543-01	.9145	.2047-02	.2415-02	1.520	11.08	580.8
115	46.800	.80000	1053.0	.5257-01	.6396-01	.6201-01	.9145	.2290-02	.2701-02	1.703	12.42	580.1
115	93.600	.50000	1062.0	.6603-01	.8051-01	.7804-01	.9145	.2876-02	.3399-02	2.117	14.89	587.7
115	93.600	.60000	1063.0	.5576-01	.6799-01	.6590-01	.9145	.2429-02	.2871-02	1.788	11.81	587.6
115	93.600	.70000	1064.0	.4615-01	.5620-01	.5448-01	.9145	.2010-02	.2373-02	1.489	11.22	583.0
115	93.600	.80000	1065.0	.4677-01	.5682-01	.5511-01	.9145	.2037-02	.2401-02	1.524	10.78	575.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB03)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
128	3.686	8.000	29.95	-2.016	854.2	1353.	98.02	.8750-01	3.920	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
128	.4916-01	.2108-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
128	46.800	.50000	1050.0	.5713-01	.6970-01	.6755-01	.9144	.2809-02	.3321-02	2.107	16.29	602.4
128	46.800	.60000	1051.0	.3855-01	.4699-01	.4555-01	.9144	.1895-02	.2239-02	1.427	12.37	599.5
128	46.800	.70000	1052.0	.4921-01	.5995-01	.5811-01	.9144	.2419-02	.2857-02	1.827	13.21	597.6
128	46.800	.80000	1053.0	.6470-01	.7885-01	.7643-01	.9144	.3181-02	.3757-02	2.399	17.33	598.6
128	93.600	.50000	1062.0	.6537-01	.7968-01	.7724-01	.9144	.3213-02	.3797-02	2.420	16.92	599.6
128	93.600	.60000	1063.0	.5494-01	.6702-01	.6495-01	.9144	.2701-02	.3193-02	2.027	13.30	602.0
128	93.600	.70000	1064.0	.4752-01	.5795-01	.5617-01	.9144	.2336-02	.2761-02	1.757	13.12	600.6
128	93.600	.80000	1065.0	.5980-01	.7277-01	.7056-01	.9144	.2940-02	.3469-02	2.230	15.64	593.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB04)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
151	1.981	7.980	29.94	-1.004	435.3	1312.	95.49	.4532-01	2.020	3823.	.1281-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
151	.3510-01	.2882-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
151	46.800	.50000	1050.0	.5766-01	.7016-01	.6803-01	.9144	.2024-02	.2388-02	1.490	11.67	575.4
151	46.800	.60000	1051.0	.3955-01	.4687-01	.4545-01	.9144	.1353-02	.1595-02	.9997	8.780	572.9
151	46.800	.70000	1052.0	.4571-01	.5548-01	.5382-01	.9144	.1605-02	.1889-02	1.196	8.783	566.3
151	46.800	.80000	1053.0	.4444-01	.5390-01	.5229-01	.9144	.1560-02	.1835-02	1.166	8.572	564.2
151	93.600	.50000	1062.0	.6689-01	.8137-01	.7890-01	.9144	.2348-02	.2770-02	1.731	12.25	574.5
151	93.600	.60000	1063.0	.5693-01	.6926-01	.6716-01	.9144	.1998-02	.2357-02	1.473	9.792	574.6
151	93.600	.70000	1064.0	.4563-01	.5540-01	.5374-01	.9144	.1602-02	.1886-02	1.191	9.038	568.1
151	93.600	.80000	1065.0	.4004-01	.4853-01	.4709-01	.9144	.1406-02	.1653-02	1.054	7.506	561.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB04)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHC SLUGS /FT3	MU LB-SEC /FT2
112	2.995	7.990	29.94	-1.000	673.3	1329.	96.50	.6953-01	3.107	3848.	.1945-02	.7766-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
112	.4363-01	.2342-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
112	46.800	.50000	1050.0	.5567-01	.6783-01	.6576-01	.9144	.2429-02	.2369-02	1.801	14.02	587.2
112	46.800	.60000	1051.0	.3722-01	.4531-01	.4393-01	.9144	.1624-02	.1917-02	1.209	10.56	584.4
112	46.800	.70000	1052.0	.4506-01	.5478-01	.5313-01	.9144	.1966-02	.2318-02	1.472	10.74	579.9
112	46.800	.80000	1053.0	.5048-01	.6136-01	.5951-01	.9144	.2203-02	.2597-02	1.651	12.04	579.2
112	93.600	.50000	1062.0	.6433-01	.7835-01	.7597-01	.9144	.2807-02	.3314-02	2.085	14.67	586.0
112	93.600	.60000	1063.0	.5453-01	.6642-01	.6440-01	.9144	.2379-02	.2810-02	1.766	11.67	586.4
112	93.600	.70000	1064.0	.4463-01	.5430-01	.5266-01	.9144	.1947-02	.2297-02	1.453	10.95	582.3
112	93.600	.80000	1065.0	.4500-01	.5464-01	.5300-01	.9144	.1963-02	.2312-02	1.480	10.47	575.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB04)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
125	3.687	8.000	29.96	-1.9824	854.5	1353.	98.02	.8753-01	3.921	3883.	.2410-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
125	.4917-01	.2107-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
125	46.800	.50000	1050.0	.5523-01	.6730-01	.6524-01	.9145	.2716-02	.3208-02	2.048	15.86	598.5
125	46.800	.60000	1051.0	.3776-01	.4598-01	.4458-01	.9145	.1857-02	.2192-02	1.406	12.21	595.6
125	46.800	.70000	1052.0	.4969-01	.6046-01	.5863-01	.9145	.2443-02	.2882-02	1.855	13.44	593.3
125	46.800	.80000	1053.0	.6470-01	.7876-01	.7636-01	.9145	.3181-02	.3755-02	2.409	17.44	595.2
125	93.600	.50000	1062.0	.6314-01	.7688-01	.7453-01	.9145	.3104-02	.3665-02	2.349	16.45	596.1
125	93.600	.60000	1063.0	.5374-01	.6547-01	.6347-01	.9145	.2642-02	.3120-02	1.994	13.10	598.0
125	93.600	.70000	1064.0	.4703-01	.5727-01	.5552-01	.9145	.2312-02	.2730-02	1.750	13.10	596.0
125	93.600	.80000	1065.0	.5786-01	.7033-01	.6821-01	.9145	.2845-02	.3354-02	2.169	15.24	590.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
12	.5316	7.900	29.95	.7364-02	104.3	1239.	91.88	.1159-01	.5065	3712.	.3406-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
12	.1740-01	.5555-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
12	46.800	.50000	1050.0	.6212-01	.7582-01	.7348-01	.9144	.1081-02	.1279-02	.7411	5.870	553.2
12	46.800	.60000	1051.0	.4186-01	.5107-01	.4950-01	.9144	.7286-03	.8614-03	.5006	4.445	551.5
12	46.800	.70000	1052.0	.5114-01	.6238-01	.6046-01	.9144	.8900-03	.1052-02	.6116	4.525	551.4
12	46.800	.80000	1053.0	.4678-01	.5704-01	.5529-01	.9144	.8142-03	.9621-03	.5610	4.154	549.6
12	93.600	.50000	1062.0	.6994-01	.8537-01	.8273-01	.9144	.1217-02	.1440-02	.8343	5.968	553.2
12	93.600	.60000	1063.0	.5946-01	.7256-01	.7032-01	.9144	.1035-02	.1224-02	.7100	4.773	552.5
12	93.600	.70000	1064.0	.5052-01	.6164-01	.5974-01	.9144	.8792-03	.1040-02	.6034	4.616	552.4
12	93.600	.80000	1065.0	.4296-01	.5238-01	.5077-01	.9144	.7476-03	.8835-03	.5151	3.692	549.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
49	2.016	7.980	29.96	-2452-02	435.6	1297.	94.40	.4535-01	2.021	3801.	.1297-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
49	.3504-01	.2861-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
49	46.800	.50000	1050.0	.5735-01	.6984-01	.6770-01	.9145	.2010-02	.2372-02	1.458	11.44	571.3
49	46.800	.60000	1051.0	.3819-01	.4647-01	.4506-01	.9145	.1338-02	.1579-02	.9744	8.576	568.7
49	46.800	.70000	1052.0	.4633-01	.5641-01	.5469-01	.9145	.1623-02	.1916-02	1.178	8.630	571.0
49	46.800	.80000	1053.0	.4508-01	.5484-01	.5318-01	.9145	.1580-02	.1863-02	1.150	8.435	568.6
49	93.600	.50000	1062.0	.6580-01	.8012-01	.7767-01	.9145	.2306-02	.2722-02	1.673	11.86	571.2
49	93.600	.60000	1063.0	.5524-01	.6725-01	.6520-01	.9145	.1936-02	.2285-02	1.405	9.355	571.0
49	93.600	.70000	1064.0	.4563-01	.5560-01	.5390-01	.9145	.1599-02	.1889-02	1.156	8.753	573.5
49	93.600	.80000	1065.0	.3992-01	.4856-01	.4708-01	.9145	.1399-02	.1650-02	1.019	7.238	567.9

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OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O FUSELAGE

(R4UB06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
78	3.052	7.990	29.97	-.2449-02	670.0	1308.	94.98	.6919-01	3.092	3817.	.1966-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
78	.4340-01	.2325-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
78	46.800	.50000	1050.0	.5518-01	.6739-01	.6530-01	.9145	.2395-02	.2834-02	1.728	13.46	586.1
78	46.800	.60000	1051.0	.3704-01	.4520-01	.4381-01	.9145	.1608-02	.1901-02	1.164	10.17	563.4
78	46.800	.70000	1052.0	.4665-01	.5684-01	.5510-01	.9145	.2025-02	.2391-02	1.477	10.78	578.4
78	46.800	.80000	1053.0	.5134-01	.6255-01	.6063-01	.9145	.2228-02	.2632-02	1.626	11.87	577.9
78	93.600	.50000	1062.0	.6381-01	.7791-01	.7550-01	.9145	.2769-02	.3277-02	2.000	14.08	585.3
78	93.600	.60000	1063.0	.5412-01	.6609-01	.6404-01	.9145	.2349-02	.2780-02	1.696	11.21	585.7
78	93.600	.70000	1064.0	.4423-01	.5394-01	.5228-01	.9145	.1920-02	.2269-02	1.395	10.52	581.2
78	93.600	.80000	1065.0	.4581-01	.5575-01	.5405-01	.9145	.1988-02	.2346-02	1.458	10.32	574.3

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OH84B MODEL 50-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 50-0 FUSELAGE

(R4UB06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
121	3.693	8.000	29.97	.4899-02	853.8	1351.	97.87	.8746-01	3.918	3880.	.2412-02	.7876-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
121	.4913-01	.2106-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
121	46.800	.50000	1050.0	.5458-01	.6648-01	.6444-01	.9145	.2681-02	.3166-02	2.023	15.68	596.3
121	46.800	.60000	1051.0	.3729-01	.4538-01	.4400-01	.9145	.1832-02	.2162-02	1.388	12.07	593.1
121	46.800	.70000	1052.0	.5913-01	.6098-01	.5913-01	.9145	.2463-02	.2905-02	1.870	13.56	591.4
121	46.600	.80000	1053.0	.6701-01	.8157-01	.7908-01	.9145	.3292-02	.3886-02	2.490	18.04	594.2
121	93.600	.50000	1062.0	.6284-01	.7651-01	.7417-01	.9145	.3088-02	.3644-02	2.334	16.36	594.6
121	93.600	.60000	1063.0	.5265-01	.6412-01	.6216-01	.9145	.2587-02	.3054-02	1.954	12.85	595.6
121	93.600	.70000	1064.0	.4662-01	.5675-01	.5502-01	.9145	.2291-02	.2703-02	1.733	12.98	594.3
121	93.600	.80000	1065.0	.5943-01	.7224-01	.7005-01	.9145	.2920-02	.3442-02	2.224	15.63	588.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB07)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
148	2.006	7.980	29.97	-.4892-02	434.9	1300.	94.62	.4528-01	2.018	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
148	.3503-01	.2867-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
148	46.800	.50000	1050.0	.5735-01	.6985-01	.6771-01	.9145	.2009-02	.2372-02	1.460	11.45	573.2
148	46.800	.60000	1051.0	.3855-01	.4691-01	.4548-01	.9145	.1350-02	.1593-02	.9840	8.651	571.0
148	46.800	.70000	1052.0	.4612-01	.5602-01	.5433-01	.9145	.1616-02	.1903-02	1.188	8.737	564.1
148	46.800	.80000	1053.0	.4395-01	.5335-01	.5174-01	.9145	.1539-02	.1812-02	1.135	8.354	562.2
148	93.600	.50000	1062.0	.6611-01	.8051-01	.7804-01	.9145	.2316-02	.2734-02	1.684	11.93	572.7
148	93.600	.60000	1063.0	.5627-01	.6852-01	.6642-01	.9145	.1971-02	.2327-02	1.433	9.540	572.5
148	93.600	.70000	1064.0	.4574-01	.5558-01	.5390-01	.9145	.1602-02	.1888-02	1.176	8.939	565.6
148	93.600	.80000	1065.0	.3988-01	.4838-01	.4693-01	.9145	.1397-02	.1644-02	1.033	7.367	560.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 300

OH84B 60-0 FUSELAGE

(R4UB08)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
52	1.990	7.980	29.94	1.035	434.8	1307.	95.13	.4526-01	2.018	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
52	.3506-01	.2877-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
52	46.800	.50000	1050.0	.5633-01	.6851-01	.6644-01	.9144	.1975-02	.2329-02	1.451	11.39	571.8
52	46.800	.60000	1051.0	.3813-01	.4634-01	.4495-01	.9144	.1337-02	.1576-02	.9859	8.676	569.1
52	46.800	.70000	1052.0	.4458-01	.5421-01	.5258-01	.9144	.1563-02	.1843-02	1.150	8.423	571.1
52	46.800	.80000	1053.0	.4401-01	.5347-01	.5186-01	.9144	.1543-02	.1818-02	1.139	8.358	568.3
52	93.600	.50000	1062.0	.6382-01	.7761-01	.7527-01	.9144	.2237-02	.2639-02	1.646	11.67	571.2
52	93.600	.60000	1063.0	.5417-01	.6587-01	.6388-01	.9144	.1899-02	.2239-02	1.397	9.302	571.1
52	93.600	.70000	1064.0	.4480-01	.5452-01	.5287-01	.9144	.1571-02	.1853-02	1.151	8.715	573.6
52	93.600	.80000	1065.0	.3992-01	.4836-01	.4692-01	.9144	.1396-02	.1645-02	1.031	7.325	567.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 301

OH84B 60-0 FUSELAGE

(R4UB10)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
56	1.998	7.980	29.94	2.039	435.1	1304.	94.91	.4530-01	2.019	3811.	.1288-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
56	.3505-01	.2872-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
56	46.800	.50000	1050.0	.5567-01	.6772-01	.6567-01	.9144	.1952-02	.2302-02	1.431	11.23	570.7
56	46.800	.60000	1051.0	.3767-01	.4579-01	.4441-01	.9144	.1321-02	.1557-02	.9715	8.553	568.0
56	46.800	.70000	1052.0	.4458-01	.5407-01	.5246-01	.9144	.1563-02	.1839-02	1.161	8.551	560.7
56	46.800	.80000	1053.0	.4349-01	.5270-01	.5114-01	.9144	.1525-02	.1793-02	1.137	8.386	557.8
56	93.600	.50000	1062.0	.6208-01	.7548-01	.7320-01	.9144	.2176-02	.2566-02	1.597	11.33	569.7
56	93.600	.60000	1063.0	.5219-01	.6346-01	.6155-01	.9144	.1830-02	.2157-02	1.343	8.951	569.6
56	93.600	.70000	1064.0	.4291-01	.5208-01	.5052-01	.9144	.1504-02	.1771-02	1.114	8.478	563.0
56	93.600	.80000	1065.0	.3871-01	.4690-01	.4551-01	.9144	.1357-02	.1595-02	1.013	7.234	557.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 302

OH84B 60-0 FUSELAGE

(R4UB1)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
166	2.007	7.980	34.98	-4.060	435.1	1300.	94.62	.4530-01	2.019	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
166	.3504-01	.2866-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
166	46.800	.50000	1050.0	.7081-01	.8662-01	.8199-01	.9253	.2481-02	.2873-02	1.766	13.74	587.9
166	46.800	.60000	1051.0	.4643-01	.5672-01	.5371-01	.9253	.1627-02	.1882-02	1.166	10.19	583.1
166	46.800	.70000	1052.0	.5618-01	.6848-01	.6489-01	.9253	.1969-02	.2273-02	1.425	10.41	575.9
166	46.600	.80000	1053.0	.5731-01	.6977-01	.6613-01	.9253	.2008-02	.2317-02	1.461	10.70	572.1
166	93.600	.50000	1062.0	.8014-01	.9800-01	.9277-01	.9253	.2808-02	.3250-02	2.003	14.10	586.2
166	93.600	.60000	1063.0	.6801-01	.8313-01	.7870-01	.9253	.2383-02	.2757-02	1.703	11.26	585.0
166	93.600	.70000	1064.0	.5441-01	.6636-01	.6287-01	.9253	.1907-02	.2203-02	1.376	10.40	577.7
166	93.600	.80000	1065.0	.5011-01	.6095-01	.5778-01	.9253	.1756-02	.2025-02	1.283	9.102	569.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB11)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
109	3.001	7.990	34.99	-4.047	671.6	1325.	96.21	.6936-01	3.099	3842.	.1946-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
109	.4355-01	.2340-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
109	46.800	.50000	1050.0	.6536-01	.8022-01	.7585-01	.9253	.2847-02	.3303-02	2.036	15.68	609.4
109	46.800	.60000	1051.0	.4397-01	.5385-01	.5095-01	.9253	.1915-02	.2219-02	1.384	11.98	602.2
109	46.800	.70000	1052.0	.5912-01	.7237-01	.6848-01	.9253	.2575-02	.2983-02	1.863	13.45	601.1
109	46.800	.80000	1053.0	.8372-01	.1027	.9710-01	.9253	.3646-02	.4229-02	2.618	18.85	606.7
109	93.600	.50000	1062.0	.7531-01	.9230-01	.8731-01	.9253	.3280-02	.3803-02	2.360	16.45	605.2
109	93.600	.60000	1063.0	.6275-01	.7687-01	.7273-01	.9253	.2733-02	.3167-02	1.971	12.92	603.4
109	93.600	.70000	1064.0	.5279-01	.6463-01	.6115-01	.9253	.2299-02	.2663-02	1.663	12.41	601.5
109	93.600	.80000	1065.0	.7250-01	.8868-01	.8393-01	.9253	.3158-02	.3656-02	2.293	16.03	598.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB11)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
143	3.686	8.000	34.98	-4.043	854.1	1353.	98.02	.8749-01	3.919	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
143	.4915-01	.2108-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
143	46.800	.50000	1050.0	.6943-01	.8497-01	.8042-01	.9253	.3413-02	.3953-02	2.525	19.41	613.0
143	46.800	.60000	1051.0	.4857-01	.5936-01	.5620-01	.9253	.2388-02	.2763-02	1.777	15.34	608.3
143	46.800	.70000	1052.0	.7824-01	.9569-01	.9058-01	.9253	.3846-02	.4452-02	2.853	20.49	610.9
143	46.800	.80000	1053.0	.1293	.1589	.1502	.9253	.6356-02	.7383-02	4.613	32.88	626.9
143	93.600	.50000	1062.0	.7853-01	.9600-01	.9088-01	.9253	.3860-02	.4467-02	2.869	19.96	609.4
143	93.600	.60000	1063.0	.6898-01	.8433-01	.7983-01	.9253	.3391-02	.3924-02	2.520	16.47	609.5
143	93.600	.70000	1064.0	.7046-01	.8618-01	.8157-01	.9253	.4463-02	.4009-02	2.569	19.09	610.9
143	93.600	.80000	1065.0	.1168	.1431	.1354	.9253	.744-02	.6654-02	4.239	29.42	614.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB12)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
163	2.006	7.980	35.01	-1.994	434.8	1300.	94.62	.4527-01	2.018	3805.	.1291-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
163	.3503-01	.2867-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
163	46.800	.50000	1050.0	.6858-01	.8384-01	.7935-01	.9254	.2402-02	.2779-02	1.715	13.37	585.6
163	46.800	.60000	1051.0	.4513-01	.5510-01	.5218-01	.9254	.1581-02	.1828-02	1.135	9.926	581.6
163	46.800	.70000	1052.0	.5358-01	.6529-01	.6185-01	.9254	.1876-02	.2166-02	1.360	9.941	575.1
163	46.800	.80000	1053.0	.5416-01	.6594-01	.6249-01	.9254	.1897-02	.2189-02	1.380	10.11	572.1
163	93.600	.50000	1062.0	.7658-01	.9355-01	.8857-01	.9254	.2682-02	.3102-02	1.921	13.53	583.5
163	93.600	.60000	1063.0	.6493-01	.7930-01	.7509-01	.9254	.2274-02	.2630-02	1.630	10.80	582.7
163	93.600	.70000	1064.0	.5207-01	.6348-01	.6014-01	.9254	.1824-02	.2106-02	1.319	9.974	576.2
163	93.600	.80000	1065.0	.4978-01	.6055-01	.5740-01	.9254	.1744-02	.2010-02	1.275	9.048	568.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB12)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
106	3.013	7.990	35.02	-1.984	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
106	.4349-01	.2337-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
106	46.800	.50000	1050.0	.6797-01	.8307-01	.7864-01	.9254	.2956-02	.3420-02	2.147	16.66	593.6
106	46.800	.60000	1051.0	.4548-01	.5552-01	.5257-01	.9254	.1978-02	.2287-02	1.443	12.56	590.3
106	46.800	.70000	1052.0	.6313-01	.7702-01	.7294-01	.9254	.2746-02	.3172-02	2.010	14.61	587.5
106	46.800	.80000	1053.0	.8317-01	.1016	.9616-01	.9254	.3617-02	.4182-02	2.635	19.11	591.2
106	93.600	.50000	1062.0	.7677-01	.9375-01	.8877-01	.9254	.3339-02	.3861-02	2.433	17.08	590.9
106	93.600	.60000	1063.0	.6410-01	.7829-01	.7412-01	.9254	.2788-02	.3224-02	2.029	13.38	591.7
106	93.600	.70000	1064.0	.5898-01	.7198-01	.6816-01	.9254	.2565-02	.2965-02	1.874	14.08	589.0
106	93.600	.80000	1065.0	.7479-01	.9114-01	.8634-01	.9254	.3253-02	.3755-02	2.394	16.87	583.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB12)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
140	3.683	8.000	35.02	-1.979	853.5	1353.	98.02	.8743-01	3.917	3883.	.2407-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
140	.4914-01	.2109-01

TEST DATA

RUN NUMBER	YO	XB/LB	I/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
140	46.800	.50000	1050.0	.6863-01	.8393-01	.7943-01	.9254	.3372-02	.3903-02	2.503	19.27	610.4
140	46.800	.60000	1051.0	.4729-01	.5778-01	.5469-01	.9254	.2324-02	.2688-02	1.732	14.96	607.4
140	46.800	.70000	1052.0	.7349-01	.8981-01	.8501-01	.9254	.3611-02	.4177-02	2.688	19.33	608.4
140	46.800	.80000	1053.0	.1211	.1486	.1405	.9254	.5951-02	.6903-02	4.351	31.09	621.5
140	93.600	.50000	1062.0	.7676-01	.9375-01	.8876-01	.9254	.3772-02	.4361-02	2.814	19.61	606.5
140	93.600	.60000	1063.0	.6580-01	.8041-01	.7612-01	.9254	.3233-02	.3740-02	2.407	15.74	608.3
140	93.600	.70000	1064.0	.6876-01	.8407-01	.7957-01	.9254	.3379-02	.3910-02	2.510	18.67	609.7
140	93.600	.80000	1065.0	.1127	.1378	.1304	.9254	.5536-02	.6409-02	4.103	28.52	611.5

OH84B 60-0 FUSELAGE

(R4UB13)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
160	2.003	7.980	35.01	-.9963	435.2	1302.	94.76	.4531-01	2.020	3808.	.1290-02	.7526-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
160	.3505-01	.2869-01

TEST DATA

RUN NUMBER	YC	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
160	46.800	.50000	1050.0	.6862-01	.8376-01	.7932-01	.9254	.2405-02	.2780-02	1.732	13.52	581.6
160	46.800	.60000	1051.0	.4553-01	.5551-01	.5259-01	.9254	.1596-02	.1843-02	1.155	10.12	577.7
160	46.800	.70000	1052.0	.5446-01	.6628-01	.6282-01	.9254	.1909-02	.2202-02	1.393	10.20	571.8
160	46.800	.80000	1053.0	.5524-01	.6719-01	.6369-01	.9254	.1936-02	.2232-02	1.417	10.39	569.8
160	93.600	.50000	1062.0	.7644-01	.9325-01	.8832-01	.9254	.2679-02	.3096-02	1.935	13.66	579.6
160	93.600	.60000	1063.0	.6404-01	.7810-01	.7398-01	.9254	.2245-02	.2593-02	1.623	10.76	578.8
160	93.600	.70000	1064.0	.5213-01	.6347-01	.6015-01	.9254	.1877-02	.2108-02	1.331	10.08	573.1
160	93.600	.80000	1065.0	.4947-01	.6112-01	.5700-01	.9254	.1734-02	.1998-02	1.275	9.061	566.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB13)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
103	3.014	7.990	35.03	- .9919	669.2	1318.	95.71	.6911-01	3.088	3832.	.1949-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
103	.4343-01	.2337-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
103	46.800	.50000	1050.0	.6811-01	.8329-01	.7882-01	.9254	.2958-02	.3424-02	2.139	16.60	594.6
103	46.800	.60000	1051.0	.4404-01	.5382-01	.5095-01	.9254	.1913-02	.2213-02	1.387	12.06	592.7
103	46.800	.70000	1052.0	.6088-01	.7435-01	.7039-01	.9254	.2644-02	.3057-02	1.923	13.95	590.4
103	46.800	.80000	1053.0	.8019-01	.9800-01	.9276-01	.9254	.3483-02	.4029-02	2.525	18.30	592.6
103	93.600	.50000	1062.0	.7539-01	.9212-01	.8720-01	.9254	.3275-02	.3788-02	2.376	16.67	592.0
103	93.600	.60000	1063.0	.6205-01	.7586-01	.7180-01	.9254	.2695-02	.3119-02	1.951	12.85	593.9
103	93.600	.70000	1064.0	.5782-01	.7064-01	.6687-01	.9254	.2511-02	.2904-02	1.823	13.68	591.7
103	93.600	.80000	1065.0	.7363-01	.8981-01	.8506-01	.9254	.3198-02	.3694-02	2.339	16.46	586.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R40B13)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
137	3.676	8.000	35.07	-.9690	851.9	1353.	98.02	.8726-01	3.909	3883.	.2403-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
137	.4909-01	.2111-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
137	46.800	.50000	1050.0	.6659-01	.8148-01	.7708-01	.9255	.3269-02	.3784-02	2.419	18.61	612.5
137	46.800	.60000	1051.0	.4380-01	.5356-01	.5068-01	.9255	.2150-02	.2488-02	1.596	13.76	610.6
137	46.800	.70000	1052.0	.6984-01	.8547-01	.8086-01	.9255	.3429-02	.3969-02	2.536	18.20	613.0
137	46.800	.80000	1053.0	.1154	.1418	.1340	.9255	.5667-02	.6578-02	4.122	29.40	625.3
137	93.600	.50000	1062.0	.7460-01	.9119-01	.8629-01	.9255	.3662-02	.4236-02	2.723	18.95	609.1
137	93.600	.60000	1063.0	.6258-01	.7657-01	.7244-01	.9255	.3072-02	.3556-02	2.274	14.84	612.4
137	93.600	.70000	1064.0	.6515-01	.7978-01	.7545-01	.9255	.3198-02	.3704-02	2.360	17.51	614.8
137	93.600	.80000	1065.0	.1058	.1296	.1226	.9255	.5196-02	.6019-02	3.828	26.55	615.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R40814)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
15	.5155	7.900	34.95	.2148-02	101.7	1243.	92.17	.1130-01	.4937	3718.	.3309-03	.7417-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
15	.1719-01	.5638-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
15	46.800	.50000	1050.0	.7249-01	.8850-01	.8382-01	.9253	.1246-02	.1441-02	.8558	6.769	555.9
15	46.800	.60000	1051.0	.4898-01	.5977-01	.5662-01	.9253	.8420-03	.9734-03	.5796	5.138	554.3
15	46.800	.70000	1052.0	.6061-01	.7397-01	.7007-01	.9253	.1042-02	.1204-02	.7168	5.294	554.7
15	46.800	.80000	1053.0	.5488-01	.6694-01	.6342-01	.9253	.9434-03	.1090-02	.6510	4.813	552.6
15	93.600	.50000	1062.0	.7986-01	.9749-01	.9234-01	.9253	.1373-02	.1587-02	.9433	6.740	555.5
15	93.600	.60000	1063.0	.6894-01	.8415-01	.7971-01	.9253	.1185-02	.1370-02	.8145	5.468	555.3
15	93.600	.70000	1064.0	.5758-01	.7030-01	.6659-01	.9253	.9898-03	.1145-02	.6800	5.194	555.7
15	93.600	.80000	1065.0	.5049-01	.6157-01	.5834-01	.9253	.8680-03	.1003-02	.5994	4.290	552.1

OH84B 60-0 FUSELAGE

(R4UB14)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
62	1.995	7.980	34.99	-.1400-02	434.9	1305.	94.98	.4527-01	2.018	3813.	.1287-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
62	.3505-01	.2874-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
62	46.800	.50000	1050.0	.6924-01	.8448-01	.8002-01	.9254	.2427-02	.2805-02	1.756	13.71	581.3
62	46.800	.60000	1051.0	.4492-01	.5476-01	.5188-01	.9254	.1574-02	.1818-02	1.143	10.01	578.5
62	46.800	.70000	1052.0	.5512-01	.6707-01	.6357-01	.9254	.1932-02	.2228-02	1.414	10.35	572.5
62	46.800	.80000	1053.0	.5634-01	.6851-01	.6496-01	.9254	.1975-02	.2277-02	1.450	10.63	570.4
62	93.600	.50000	1062.0	.7618-01	.9291-01	.8801-01	.9254	.2670-02	.3085-02	1.935	13.65	580.2
62	93.600	.60000	1063.0	.6349-01	.7744-01	.7336-01	.9254	.2225-02	.2571-02	1.611	10.68	580.6
62	93.600	.70000	1064.0	.5256-01	.6401-01	.6066-01	.9254	.1842-02	.2126-02	1.344	10.16	575.2
62	93.600	.80000	1065.0	.5032-01	.6115-01	.5798-01	.9254	.1764-02	.2032-02	1.299	9.220	568.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB14)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
81	3.030	7.990	35.02	-.6903-03	670.5	1315.	95.49	.6924-01	3.094	3827.	.1957-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
81	.4346-01	.2332-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
81	46.800	.50000	1050.0	.6668-01	.8159-01	.7720-01	.9254	.2898-02	.3355-02	2.085	16.17	595.2
81	46.800	.60000	1051.0	.4226-01	.5166-01	.4890-01	.9254	.1837-02	.2125-02	1.327	11.55	592.1
81	46.800	.70000	1052.0	.5895-01	.7203-01	.6818-01	.9254	.2562-02	.2963-02	1.856	13.47	590.3
81	46.800	.80000	1053.0	.7852-01	.9602-01	.9087-01	.9254	.3412-02	.3949-02	2.462	17.84	593.3
81	93.600	.50000	1062.0	.7369-01	.9011-01	.8528-01	.9254	.3202-02	.3706-02	2.310	16.19	593.4
81	93.600	.60000	1063.0	.6059-01	.7412-01	.7014-01	.9254	.2633-02	.3048-02	1.897	12.49	594.4
81	93.600	.70000	1064.0	.5505-01	.6731-01	.6370-01	.9254	.2392-02	.2768-02	1.726	12.94	593.1
81	93.600	.80000	1065.0	.7320-01	.8938-01	.8463-01	.9254	.3181-02	.3678-02	2.310	16.24	588.5

OH84B 60-0 FUSELAGE

(R40B14)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
134	3.680	8.000	35.02	-.6917-03	852.8	1353.	98.02	.8735-01	3.913	3883.	.2405-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
134	.4912-01	.2109-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
134	46.800	.50000	1050.0	.6556-01	.8023-01	.7592-01	.9254	.3220-02	.3729-02	2.382	18.31	613.0
134	46.800	.60000	1051.0	.4335-01	.5303-01	.5018-01	.9254	.2129-02	.2465-02	1.579	13.60	611.3
134	46.800	.70000	1052.0	.7055-01	.8639-01	.8173-01	.9254	.3465-02	.4014-02	2.557	18.33	614.8
134	46.800	.80000	1053.0	.1169	.1437	.1358	.9254	.5741-02	.6669-02	4.161	29.65	627.8
134	93.600	.50000	1062.0	.7184-01	.8782-01	.8312-01	.9254	.3529-02	.4083-02	2.623	18.25	609.4
134	93.600	.60000	1063.0	.6053-01	.7408-01	.7010-01	.9254	.2973-02	.3443-02	2.199	14.34	613.2
134	93.600	.70000	1064.0	.6434-01	.7884-01	.7457-01	.9254	.3160-02	.3663-02	2.325	17.22	617.1
134	93.600	.80000	1065.0	.1077	.1321	.1249	.9254	.5292-02	.6137-02	3.881	26.87	619.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
203	.4973	7.900	39.90	-10.06	99.51	1255.	93.06	.1106-01	.4831	3736.	.3207-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
203	.1703-01	.5732-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
203	46.800	.50000	1050.0	.9068-01	.1103	.1024	.9360	.1545-02	.1744-02	1.088	8.626	550.5
203	46.800	.60000	1051.0	.6075-01	.7389-01	.6856-01	.9360	.1035-02	.1168-02	.7301	6.489	549.2
203	46.800	.70000	1052.0	.7528-01	.9157-01	.8495-01	.9360	.1282-02	.1447-02	.9045	6.699	549.4
203	46.800	.80000	1053.0	.6630-01	.8059-01	.7479-01	.9360	.1129-02	.1274-02	.7992	5.926	547.0
203	93.600	.50000	1062.0	.1020	.1241	.1151	.9360	.1737-02	.1961-02	1.222	8.751	551.1
203	93.600	.60000	1063.0	.9120-01	.1110	.1030	.9360	.1554-02	.1754-02	1.093	7.350	551.3
203	93.600	.70000	1064.0	.7332-01	.8923-01	.8276-01	.9360	.1249-02	.1410-02	.8787	6.727	551.0
203	93.600	.80000	1065.0	.6424-01	.7808-01	.7246-01	.9360	.1094-02	.1234-02	.7745	5.558	546.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UB15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
190	1.004	7.940	39.95	-10.04	205.0	1261.	92.64	.2205-01	.9731	3746.	.6425-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
190	.2419-01	.4052-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
190	46.800	.50000	1050.0	.8694-01	.1062	.9833-01	.9361	.2103-02	.2379-02	1.462	11.51	565.4
190	46.800	.60000	1051.0	.5726-01	.6986-01	.6472-01	.9361	.1385-02	.1566-02	.9686	8.556	561.5
190	46.800	.70000	1052.0	.6986-01	.8526-01	.7897-01	.9361	.1690-02	.1911-02	1.179	8.673	563.0
190	46.800	.80000	1053.0	.6328-01	.7719-01	.7151-01	.9361	.1531-02	.1730-02	1.071	7.884	561.2
190	93.600	.50000	1062.0	.9876-01	.1207	.1117	.9361	.2390-02	.2703-02	1.660	11.79	566.2
190	93.600	.60000	1063.0	.8732-01	.1066	.9876-01	.9361	.2113-02	.2389-02	1.470	9.819	565.0
190	93.600	.70000	1064.0	.6678-01	.8157-01	.7553-01	.9361	.1616-02	.1827-02	1.123	8.535	565.6
190	93.600	.80000	1065.0	.6097-01	.7436-01	.6890-01	.9361	.1475-02	.1667-02	1.033	7.359	560.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UB15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
172	2.004	7.980	39.98	-10.09	434.9	1301.	94.69	.4528-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
172	.3503-01	.2868-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
172	46.800	.50000	1050.0	.8354-01	.1026	.9477-01	.9362	.2927-02	.3320-02	2.051	15.87	599.9
172	46.800	.60000	1051.0	.5428-01	.6653-01	.6151-01	.9362	.1901-02	.2155-02	1.343	11.67	594.6
172	46.800	.70000	1052.0	.6927-01	.8476-01	.7842-01	.9362	.2427-02	.2747-02	1.728	12.55	588.7
172	46.800	.80000	1053.0	.6273-01	.7663-01	.7094-01	.9362	.2197-02	.2485-02	1.575	11.47	583.8
172	93.600	.50000	1062.0	.9537-01	.1172	.1082	.9362	.3341-02	.3791-02	2.337	16.32	601.4
172	93.600	.60000	1063.0	.8509-01	.1045	.9653-01	.9362	.2981-02	.3382-02	2.088	13.71	600.2
172	93.600	.70000	1064.0	.6242-01	.7647-01	.7072-01	.9362	.2187-02	.2478-02	1.548	11.61	592.6
172	93.600	.80000	1065.0	.5823-01	.7112-01	.6585-01	.9362	.2040-02	.2307-02	1.464	10.32	583.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UB15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
100	3.008	7.990	40.00	-10.10	673.1	1325.	96.21	.6951-01	3.106	3842.	.1950-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
100	.4360-01	.2338-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
100	46.800	.50000	1050.0	.8003-01	.9853-01	.9092-01	.9362	.3489-02	.3964-02	2.463	18.88	619.0
100	46.800	.60000	1051.0	.5315-01	.6533-01	.6033-01	.9362	.2318-02	.2630-02	1.647	14.17	614.1
100	46.800	.70000	1052.0	.7464-01	.9177-01	.8473-01	.9362	.3255-02	.3694-02	2.311	16.57	614.7
100	46.800	.80000	1053.0	.8160-01	.1002	.9258-01	.9362	.3558-02	.4036-02	2.536	18.21	611.8
100	93.600	.50000	1062.0	.9030-01	.1112	.1026	.9362	.3937-02	.4473-02	2.776	19.22	619.5
100	93.600	.60000	1063.0	.8042-01	.9906-01	.9139-01	.9362	.3507-02	.3985-02	2.469	16.05	620.5
100	93.600	.70000	1064.0	.6082-01	.7485-01	.6908-01	.9362	.2652-02	.3012-02	1.874	13.88	617.9
100	93.600	.80000	1065.0	.6410-01	.7864-01	.7267-01	.9362	.2795-02	.3169-02	2.003	13.94	608.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
200	.5083	7.900	39.97	-3.996	100.7	1247.	92.47	.1119-01	.4891	3724.	.3268-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
200	.1712-01	.5675-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
200	46.800	.50000	1050.0	.8469-01	.1032	.9564-01	.9361	.1450-02	.1637-02	1.009	7.996	551.0
200	46.800	.60000	1051.0	.5679-01	.6913-01	.6410-01	.9361	.9722-03	.1097-02	.6788	6.036	548.4
200	46.800	.70000	1052.0	.6760-01	.8231-01	.7631-01	.9361	.1157-02	.1306-02	.8070	5.977	549.3
200	46.800	.80000	1053.0	.6336-01	.7710-01	.7150-01	.9361	.1085-02	.1224-02	.7588	5.626	547.1
200	93.600	.50000	1062.0	.9434-01	.1149	.1065	.9361	.1615-02	.1824-02	1.124	8.047	550.9
200	93.600	.60000	1063.0	.8160-01	.9939-01	.9213-01	.9361	.1397-02	.1577-02	.9731	6.549	550.1
200	93.600	.70000	1064.0	.6636-01	.8083-01	.7492-01	.9361	.1136-02	.1283-02	.7909	6.056	550.4
200	93.600	.80000	1065.0	.6020-01	.7323-01	.6792-01	.9361	.1031-02	.1163-02	.7216	5.180	546.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UB17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
187	1.008	7.940	39.96	-3.991	205.0	1257.	92.34	.2205-01	.9731	3740.	.6445-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
187	.2418-01	.4044-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
187	46.800	.50000	1050.0	.8125-01	.9928-01	.9191-01	.9361	.1965-02	.2223-02	1.360	10.71	564.7
187	46.800	.60000	1051.0	.5358-01	.6543-01	.6059-01	.9361	.1296-02	.1465-02	.8988	7.934	562.9
187	46.800	.70000	1052.0	.6466-01	.7902-01	.7316-01	.9361	.1564-02	.1769-02	1.081	7.945	565.1
187	46.800	.80000	1053.0	.5995-01	.7321-01	.6779-01	.9361	.1450-02	.1639-02	1.006	7.396	563.0
187	93.600	.50000	1062.0	.9089-01	.1111	.1028	.9361	.2198-02	.2486-02	1.521	10.82	564.5
187	93.600	.60000	1063.0	.7726-01	.9439-01	.8739-01	.9361	.1868-02	.2113-02	1.293	8.642	564.4
187	93.600	.70000	1064.0	.6062-01	.7414-01	.6861-01	.9361	.1466-02	.1659-02	1.011	7.673	567.3
187	93.600	.80000	1065.0	.5688-01	.6945-01	.6432-01	.9361	.1375-02	.1555-02	.9549	6.800	562.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 ⁶	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT ³	MU LB-SEC /FT ²
178	2.003	7.980	39.97	-4.003	435.3	1302.	94.76	.4532-01	2.020	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
178	.3505-01	.2868-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
178	46.800	.50000	1050.0	.7844-01	.9591-01	.8876-01	.9361	.2750-02	.3112-02	1.966	15.31	586.8
178	46.800	.60000	1051.0	.5080-01	.6203-01	.5744-01	.9361	.1781-02	.2014-02	1.280	11.19	582.8
178	46.800	.70000	1052.0	.6363-01	.7758-01	.7189-01	.9361	.2230-02	.2520-02	1.614	11.79	577.9
178	46.800	.80000	1053.0	.6593-01	.8035-01	.7447-01	.9361	.2311-02	.2610-02	1.677	12.25	576.3
178	93.600	.50000	1062.0	.8758-01	.1070	.9908-01	.9361	.3070-02	.3473-02	2.198	15.47	585.8
178	93.600	.60000	1063.0	.7466-01	.9125-01	.8447-01	.9361	.2617-02	.2961-02	1.873	12.39	585.9
178	93.600	.70000	1064.0	.5966-01	.7281-01	.6743-01	.9361	.2091-02	.2364-02	1.507	11.37	580.9
178	93.600	.80000	1065.0	.5939-01	.7232-01	.6705-01	.9361	.2082-02	.2350-02	1.516	10.73	573.7

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O FUSELAGE

(R4UB17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
96	2.988	7.990	40.00	-4.027	670.3	1327.	96.36	.6922-01	3.093	3845.	.1939-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
96	.4352-01	.2345-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
96	46.800	.50000	1050.0	.7743-01	.9490-01	.8773-01	.9362	.3370-02	.3818-02	2.427	18.72	606.3
96	46.800	.60000	1051.0	.5376-01	.6583-01	.6089-01	.9362	.2340-02	.2650-02	1.693	14.65	603.1
96	46.800	.70000	1052.0	.8772-01	.1075	.9940-01	.9362	.3818-02	.4326-02	2.748	19.78	606.7
96	46.800	.80000	1053.0	.1365	.1680	.1550	.9362	.5941-02	.6748-02	4.206	30.10	618.7
96	93.600	.50000	1062.0	.8606-01	.1055	.9750-01	.9362	.3745-02	.4243-02	2.701	18.82	605.6
96	93.600	.60000	1063.0	.7481-01	.9170-01	.8477-01	.9362	.3256-02	.3689-02	2.345	15.35	606.4
96	93.600	.70000	1064.0	.7282-01	.8930-01	.8254-01	.9362	.3169-02	.3592-02	2.278	16.95	607.9
96	93.600	.80000	1065.0	.1131	.1387	.1282	.9362	.4921-02	.5578-02	3.533	24.58	608.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB18)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
197	.4998	7.900	39.96	-1.991	100.2	1257.	93.21	.1114-01	.4867	3739.	.3226-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
197	.1710-01	.5716-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
197	46.800	.50000	1050.0	.8260-01	.1006	.9326-01	.9361	.1413-02	.1595-02	.9915	7.847	554.7
197	46.800	.60000	1051.0	.5545-01	.6749-01	.6258-01	.9361	.9482-03	.1070-02	.6678	5.926	552.4
197	46.800	.70000	1052.0	.6640-01	.8084-01	.7495-01	.9361	.1136-02	.1282-02	.7985	5.902	553.4
197	46.800	.80000	1053.0	.6171-01	.7509-01	.6964-01	.9361	.1055-02	.1191-02	.7447	5.510	551.1
197	93.600	.50000	1062.0	.9096-01	.1108	.1027	.9361	.1556-02	.1756-02	1.093	7.816	554.0
197	93.600	.60000	1063.0	.7780-01	.9474-01	.8783-01	.9361	.1331-02	.1502-02	.9354	6.284	553.7
197	93.600	.70000	1064.0	.6330-01	.7709-01	.7147-01	.9361	.1083-02	.1222-02	.7603	5.811	554.3
197	93.600	.80000	1065.0	.5865-01	.7134-01	.6617-01	.9361	.1003-02	.1132-02	.7084	5.075	550.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB18)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
184	.9995	7.940	39.97	-2.001	204.9	1264.	92.86	.2204-01	.9726	3751.	.6406-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
184	.2420-01	.4059-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT- BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
184	46.800	.50000	1050.0	.8072-01	.9850-01	.9124-01	.9361	.1953-02	.2208-02	1.368	10.77	563.6
184	46.800	.60000	1051.0	.5359-01	.6536-01	.6055-01	.9361	.1297-02	.1465-02	.9095	8.031	562.3
184	46.800	.70000	1052.0	.6450-01	.7872-01	.7291-01	.9361	.1561-02	.1764-02	1.092	8.025	564.2
184	46.800	.80000	1053.0	.6043-01	.7371-01	.6829-01	.9361	.1462-02	.1652-02	1.026	7.551	562.0
184	93.600	.50000	1062.0	.8866-01	.1082	.1002	.9361	.2145-02	.2425-02	1.504	10.70	562.9
184	93.600	.60000	1063.0	.7608-01	.9281-01	.8598-01	.9361	.1841-02	.2081-02	1.290	8.628	562.9
184	93.600	.70000	1064.0	.6139-01	.7496-01	.6942-01	.9361	.1486-02	.1680-02	1.037	7.881	565.6
184	93.600	.80000	1065.0	.5608-01	.6837-01	.6335-01	.9361	.1357-02	.1533-02	.9541	6.799	560.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UB18)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
175	1.988	7.980	39.99	-2.005	434.9	1308.	95.20	.4528-01	2.018	3817.	.1284-02	.7661-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
175	.3507-01	.2878-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
175	46.800	.50000	1050.0	.7743-01	.9454-01	.8754-01	.9362	.2715-02	.3070-02	1.962	15.30	585.0
175	46.800	.60000	1051.0	.5032-01	.6137-01	.5685-01	.9362	.1765-02	.1994-02	1.282	11.22	580.9
175	46.800	.70000	1052.0	.6331-01	.7710-01	.7147-01	.9362	.2220-02	.2506-02	1.623	11.85	576.7
175	46.800	.80000	1053.0	.6489-01	.7901-01	.7324-01	.9362	.2275-02	.2568-02	1.665	12.17	575.8
175	93.600	.50000	1062.0	.8497-01	.1037	.9604-01	.9362	.2979-02	.3368-02	2.156	15.19	583.9
175	93.600	.60000	1063.0	.7092-01	.8655-01	.8016-01	.9362	.2487-02	.2811-02	1.801	11.92	583.5
175	93.600	.70000	1064.0	.5757-01	.7016-01	.6502-01	.9362	.2019-02	.2280-02	1.471	11.11	578.9
175	93.600	.80000	1065.0	.5862-01	.7131-01	.6613-01	.9362	.2056-02	.2319-02	1.510	10.70	573.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4U818)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
93	X10.6 2.993	7.990	40.02	-2.035	672.1	1328.	96.43	.6941-01	3.102	3846.	.1943-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
93	.4359-01	.2343-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
93	46.800	.50000	1050.0	.7637-01	.9321-01	.8631-01	.9362	.3328-02	.3762-02	2.445	18.98	593.0
93	46.800	.60000	1051.0	.5403-01	.6589-01	.6104-01	.9362	.2355-02	.2660-02	1.737	15.13	590.0
93	46.800	.70000	1052.0	.8726-01	.1065	.9861-01	.9362	.3803-02	.4298-02	2.796	20.27	592.5
93	46.800	.80000	1053.0	.1392	.1706	.1577	.9362	.6069-02	.6874-02	4.383	31.57	605.5
93	93.600	.50000	1062.0	.8298-01	.1012	.9376-01	.9362	.3617-02	.4087-02	2.662	18.68	591.7
93	93.600	.60000	1063.0	.7348-01	.8968-01	.8304-01	.9362	.3203-02	.3619-02	2.355	15.52	592.5
93	93.600	.70000	1064.0	.7744-01	.9455-01	.8754-01	.9362	.3375-02	.3816-02	2.477	18.56	594.0
93	93.600	.80000	1065.0	.1247	.1523	.1410	.9362	.5434-02	.6145-02	3.975	27.83	596.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(P4UB21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
194	.5043	7.900	39.98	-1.003	100.4	1251.	92.77	.1116-01	.4876	3730.	.3247-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
194	.1710-01	.5695-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
194	46.800	.50000	1050.0	.8309-01	.1012	.9383-01	.9361	.1421-02	.1605-02	.9918	7.856	552.8
194	46.800	.60000	1051.0	.5537-01	.6743-01	.6251-01	.9361	.9471-03	.1069-02	.6627	5.886	550.9
194	46.800	.70000	1052.0	.6724-01	.8190-01	.7592-01	.9361	.1150-02	.1298-02	.8037	5.945	551.8
194	46.800	.80000	1053.0	.6273-01	.7636-01	.7080-01	.9361	.1073-02	.1211-02	.7519	5.567	549.9
194	93.600	.50000	1062.0	.9068-01	.1105	.1024	.9361	.1551-02	.1751-02	1.084	7.755	552.1
194	93.600	.60000	1063.0	.7774-01	.9469-01	.8778-01	.9361	.1330-02	.1501-02	.9292	6.249	551.8
194	93.600	.70000	1064.0	.6444-01	.7851-01	.7277-01	.9361	.1102-02	.1245-02	.7692	5.884	552.7
194	93.600	.80000	1065.0	.5848-01	.7116-01	.6599-01	.9361	.1000-02	.1129-02	.7017	5.030	549.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UB21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
181	.9960	7.940	39.97	-1.003	203.7	1262.	92.71	.2191-01	.9670	3748.	.6379-03	.7460-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
181	.2412-01	.4067-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
181	46.800	.50000	1050.0	.8077-01	.9860-01	.9131-01	.9361	.1948-02	.2203-02	1.359	10.71	564.0
181	46.800	.60000	1051.0	.5384-01	.6571-01	.6086-01	.9361	.1299-02	.1468-02	.9072	8.007	563.1
181	46.800	.70000	1052.0	.6556-01	.8006-01	.7414-01	.9361	.1581-02	.1788-02	1.102	8.095	565.0
181	46.800	.80000	1053.0	.6030-01	.7358-01	.6815-01	.9361	.1454-02	.1644-02	1.016	7.477	562.8
181	93.600	.50000	1062.0	.8750-01	.1068	.9890-01	.9361	.2111-02	.2386-02	1.474	10.50	563.1
181	93.600	.60000	1063.0	.7543-01	.9205-01	.8526-01	.9361	.1819-02	.2057-02	1.271	3.498	563.1
181	93.600	.70000	1064.0	.6163-01	.7528-01	.6970-01	.9361	.1486-02	.1681-02	1.034	7.855	566.1
181	93.600	.80000	1065.0	.5624-01	.6860-01	.6355-01	.9361	.1357-02	.1533-02	.9500	6.768	561.3

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
169	2.008	7.980	40.02	-1.013	435.3	1300.	94.62	.4532-01	2.020	3805.	.1293-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
169	.3505-01	.2866-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
169	46.800	.50000	1050.0	.7436-01	.9128-01	.8433-01	.9362	.2606-02	.2955-02	1.828	14.15	598.4
169	46.800	.60000	1051.0	.4769-01	.5847-01	.5404-01	.9362	.1671-02	.1894-02	1.178	10.24	594.8
169	46.800	.70000	1052.0	.6111-01	.7484-01	.6921-01	.9362	.2142-02	.2425-02	1.516	11.00	591.6
169	46.800	.80000	1053.0	.6377-01	.7809-01	.7221-01	.9362	.2235-02	.2531-02	1.583	11.48	591.1
169	93.600	.50000	1062.0	.8163-01	.1001	.9252-01	.9362	.2861-02	.3242-02	2.014	14.11	595.6
169	93.600	.60000	1063.0	.6674-01	.8187-01	.7565-01	.9362	.2339-02	.2651-02	1.644	10.81	596.6
169	93.600	.70000	1064.0	.5295-01	.6490-01	.5999-01	.9362	.1856-02	.2102-02	1.310	9.817	593.7
169	93.600	.80000	1065.0	.5836-01	.7140-01	.6605-01	.9362	.2045-02	.2315-02	1.456	10.24	587.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
88	3.008	7.990	40.09	-1.038	670.2	1321.	95.92	.6921-01	3.093	3836.	.1947-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
88	.4348-01	.2339-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
88	46.800	.50000	1050.0	.7559-01	.9288-01	.6574-01	.9364	.3287-02	.3728-02	2.333	17.95	611.0
88	46.800	.60000	1051.0	.5263-01	.6466-01	.5969-01	.9364	.2288-02	.2596-02	1.625	14.00	610.8
88	46.800	.70000	1052.0	.8933-01	.1099	.1014	.9364	.3884-02	.4409-02	2.742	19.66	614.8
88	46.800	.80000	1053.0	.1413	.1745	.1608	.9364	.6146-02	.6992-02	4.266	30.41	626.5
88	93.600	.50000	1062.0	.8266-01	.1015	.9371-01	.9364	.3595-02	.4075-02	2.562	17.83	608.0
88	93.600	.60000	1063.0	.7223-01	.8890-01	.8196-01	.9364	.3141-02	.3564-02	2.223	14.50	613.0
88	93.600	.70000	1064.0	.7542-01	.9289-01	.8567-01	.9364	.3280-02	.3725-02	2.303	17.05	618.5
88	93.600	.80000	1065.0	.1281	.1578	.1455	.9364	.5571-02	.6329-02	3.909	27.06	619.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
18	.5054	7.900	40.00	-.3140-02	100.3	1248.	92.54	.1114-01	.4869	3726.	.3250-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
18	.1708-01	.5691-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
18	46.800	.50000	1050.0	.8413-01	.1027	.9508-01	.9362	.1437-02	.1624-02	.9930	7.851	556.7
18	46.800	.60000	1051.0	.5646-01	.6887-01	.6380-01	.9362	.9646-03	.1090-02	.6680	5.919	555.2
18	46.800	.70000	1052.0	.6856-01	.8365-01	.7747-01	.9362	.1171-02	.1324-02	.8099	5.978	556.1
18	46.800	.80000	1053.0	.6350-01	.7742-01	.7173-01	.9362	.1085-02	.1225-02	.7525	5.561	553.9
18	93.600	.50000	1062.0	.8969-01	.1094	.1014	.9362	.1532-02	.1731-02	1.060	7.568	556.1
18	93.600	.60000	1063.0	.7912-01	.9653-01	.8941-01	.9362	.1352-02	.1527-02	.9347	6.272	556.1
18	93.600	.70000	1064.0	.6659-01	.8127-01	.7526-01	.9362	.1138-02	.1286-02	.7854	5.994	557.2
18	93.600	.80000	1065.0	.5898-01	.7190-01	.6662-01	.9362	.1008-02	.1138-02	.6994	5.003	553.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
34	1.029	7.940	39.99	.1042-02	208.4	1254.	92.12	.2242-01	.9894	3736.	.6568-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
34	.2437-01	.4005-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
34	46.800	.50000	1050.0	.7991-01	.9766-01	.9040-01	.9362	.1948-02	.2203-02	1.344	10.59	563.8
34	46.800	.60000	1051.0	.5262-01	.6427-01	.5950-01	.9362	.1282-02	.1450-02	.8869	7.831	562.1
34	46.800	.70000	1052.0	.6506-01	.7953-01	.7361-01	.9362	.1586-02	.1794-02	1.093	8.034	564.4
34	46.800	.80000	1053.0	.5929-01	.7243-01	.6705-01	.9362	.1445-02	.1634-02	.9983	7.344	562.8
34	46.800	.50000	1062.0	.8733-01	.1067	.9877-01	.9362	.2128-02	.2407-02	1.470	10.46	563.0
34	93.600	.60000	1063.0	.7356-01	.8986-01	.8319-01	.9362	.1793-02	.2028-02	1.239	8.290	562.4
34	93.600	.70000	1064.0	.6064-01	.7416-01	.6862-01	.9362	.1478-02	.1673-02	1.017	7.727	565.7
34	93.600	.80000	1065.0	.5494-01	.6709-01	.6212-01	.9362	.1339-02	.1514-02	.9269	6.603	561.5

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
75	2.004	7.980	40.04	-1423-06	434.9	1301.	94.69	.4527-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
75	.3503-01	.2868-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
75	46.800	.50000	1050.0	.7775-01	.9519-01	.8803-01	.9363	.2724-02	.3084-02	1.934	15.03	590.6
75	46.800	.60000	1051.0	.5030-01	.6152-01	.5691-01	.9363	.1762-02	.1994-02	1.256	10.95	587.9
75	46.800	.70000	1052.0	.6335-01	.7739-01	.7163-01	.9363	.2219-02	.2509-02	1.590	11.58	584.0
75	46.800	.80000	1053.0	.7049-01	.8611-01	.7970-01	.9363	.2469-02	.2792-02	1.770	12.89	583.7
75	93.600	.50000	1062.0	.8446-01	.1034	.9560-01	.9363	.2959-02	.3349-02	2.106	14.80	589.0
75	93.600	.60000	1063.0	.7095-01	.8685-01	.8032-01	.9363	.2486-02	.2814-02	1.766	11.65	590.2
75	93.600	.70000	1064.0	.5927-01	.7247-01	.6705-01	.9363	.2076-02	.2349-02	1.483	11.15	586.6
75	93.600	.80000	1065.0	.6491-01	.7922-01	.7335-01	.9363	.2274-02	.2570-02	1.637	11.55	580.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
84	3.017	7.990	40.07	.2139-02	669.8	1318.	95.71	.6917-01	3.091	3832.	.1951-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
84	.4345-01	.2336-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
84	46.800	.50000	1050.0	.7628-01	.9361-01	.8647-01	.9363	.3315-02	.3757-02	2.359	18.20	605.9
84	46.800	.60000	1051.0	.5284-01	.6484-01	.5989-01	.9363	.2296-02	.2603-02	1.634	14.12	605.8
84	46.800	.70000	1052.0	.8896-01	.1093	.1009	.9363	.3866-02	.4386-02	2.734	19.64	610.5
84	46.800	.80000	1053.0	.1431	.1766	.1628	.9363	.6218-02	.7073-02	4.314	30.80	623.8
84	93.600	.50000	1062.0	.8150-01	.9991-01	.9233-01	.9363	.3541-02	.4012-02	2.532	17.67	602.7
84	93.600	.60000	1063.0	.7154-01	.8782-01	.8111-01	.9363	.3109-02	.3525-02	2.209	14.45	607.1
84	93.600	.70000	1064.0	.7680-01	.9444-01	.8716-01	.9363	.3337-02	.3787-02	2.354	17.48	612.2
84	93.600	.80000	1065.0	.1291	.1589	.1466	.9363	.5610-02	.6371-02	3.938	27.31	615.6

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UB22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
147	3.672	8.000	40.10	-2161-02	850.8	1353.	98.02	.8715-01	3.904	3883.	.2400-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
147	.4906-01	.2112-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
147	46.800	.50000	1050.0	.7564-01	.9288-01	.8576-01	.9364	.3711-02	.4208-02	2.704	20.68	624.0
147	46.800	.60000	1051.0	.5727-01	.7036-01	.6496-01	.9364	.2810-02	.3187-02	2.043	17.49	625.6
147	46.800	.70000	1052.0	.1233	.1525	.1404	.9364	.6051-02	.6888-02	4.284	30.27	644.8
147	46.800	.80000	1053.0	.2032	.2530	.2323	.9364	.9968-02	.1139-01	6.848	47.91	665.7
147	93.600	.50000	1062.0	.8139-01	.9978-01	.9219-01	.9364	.3993-02	.4523-02	2.930	20.29	618.7
147	93.600	.60000	1063.0	.7666-01	.9421-01	.8696-01	.9364	.3761-02	.4266-02	2.732	17.71	626.3
147	93.600	.70000	1064.0	.1104	.1366	.1257	.9364	.5418-02	.6168-02	3.832	28.00	645.5
147	93.600	.80000	1065.0	.1951	.2419	.2225	.9364	.9574-02	.1092-01	6.696	45.61	653.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB24)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
87	3.025	7.990	40.26	.9099-02	670.1	1316.	95.56	.6920-01	3.092	3829.	.1955-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
87	.4345-01	.2333-01

TEST DATA

RUN NUMBER	YO	XB/LB	Y/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
87	46.800	.50000	1050.0	.7674-01	.9428-01	.8697-01	.9368	.3334-02	.3779-02	2.358	18.17	608.4
87	46.800	.60000	1051.0	.5205-01	.6393-01	.5898-01	.9368	.2262-02	.2563-02	1.600	13.81	608.0
87	46.800	.70000	1052.0	.8733-01	.1074	.9904-01	.9368	.3794-02	.4304-02	2.669	19.15	612.4
87	46.800	.80000	1053.0	.1420	.1755	.1615	.9368	.6171-02	.7018-02	4.257	30.36	625.9
87	93.600	.50000	1062.0	.8201-01	.1007	.9289-01	.9368	.3563-02	.4036-02	2.531	17.64	605.4
87	93.600	.60000	1063.0	.7196-01	.8844-01	.8158-01	.9368	.3127-02	.3545-02	2.208	14.43	609.6
87	93.600	.70000	1064.0	.7864-01	.9679-01	.8922-01	.9368	.3417-02	.3877-02	2.398	17.79	614.0
87	93.600	.80000	1065.0	.1317	.1623	.1496	.9368	.5725-02	.6499-02	3.996	27.69	617.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB25)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
22	.5090	7.900	40.03	1.039	101.5	1252.	92.84	.1128-01	.4927	3732.	.3279-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
22	.1719-01	.5668-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
22	46.800	.50000	1050.0	.8404-01	.1025	.9492-01	.9363	.1445-02	.1632-02	1.006	7.955	555.7
22	46.800	.60000	1051.0	.5650-01	.6885-01	.6379-01	.9363	.9714-03	.1097-02	.6777	6.009	554.0
22	46.800	.70000	1052.0	.6933-01	.8452-01	.7830-01	.9363	.1192-02	.1346-02	.8305	6.133	555.0
22	46.800	.80000	1053.0	.6335-01	.7717-01	.7151-01	.9363	.1089-02	.1230-02	.7610	5.626	553.0
22	93.600	.50000	1062.0	.9102-01	.1109	.1028	.9363	.1565-02	.1767-02	1.091	7.797	554.7
22	93.600	.60000	1063.0	.7806-01	.9515-01	.8815-01	.9363	.1342-02	.1516-02	.9354	6.280	554.8
22	93.600	.70000	1064.0	.6573-01	.8015-01	.7424-01	.9363	.1130-02	.1277-02	.7863	6.004	555.9
22	93.600	.80000	1065.0	.5910-01	.7197-01	.6670-01	.9363	.1016-02	.1147-02	.7109	5.088	552.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB25)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
37	1.021	7.940	40.06	1.019	207.3	1256.	92.27	.2230-01	.9842	3739.	.6523-03	.7425-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
37	.2432-01	.4020-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
37	46.800	.50000	1050.0	.8031-01	.9817-01	.9083-01	.9363	.1953-02	.2209-02	1.347	10.60	565.7
37	46.800	.60000	1051.0	.5234-01	.6395-01	.5918-01	.9363	.1273-02	.1439-02	.8800	7.763	564.1
37	46.800	.70000	1052.0	.6665-01	.8146-01	.7538-01	.9363	.1621-02	.1833-02	1.120	8.228	564.8
37	46.800	.80000	1053.0	.6089-01	.7439-01	.6884-01	.9363	.1480-02	.1674-02	1.024	7.532	563.8
37	93.600	.50000	1062.0	.8671-01	.1059	.9804-01	.9363	.2108-02	.2384-02	1.459	10.38	563.8
37	93.600	.60000	1063.0	.7266-01	.8876-01	.8215-01	.9363	.1767-02	.1997-02	1.223	8.172	563.6
37	93.600	.70000	1064.0	.6231-01	.7620-01	.7049-01	.9363	.1515-02	.1714-02	1.043	7.924	567.0
37	93.600	.80000	1065.0	.5611-01	.6852-01	.6343-01	.9363	.1364-02	.1542-02	.9462	6.738	562.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB25)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 ⁶	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT ³	MU LB-SEC /FT ²
72	2.004	7.980	40.09	1.028	435.4	1302.	94.76	.4533-01	2.021	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
72	.3506-01	.2868-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
72	46.800	.50000	1050.0	.7877-01	.9638-01	.8913-01	.9364	.2761-02	.3125-02	1.967	15.30	589.3
72	46.800	.60000	1051.0	.5130-01	.6272-01	.5802-01	.9364	.1799-02	.2034-02	1.286	11.22	586.5
72	46.800	.70000	1052.0	.6532-01	.7975-01	.7381-01	.9364	.2290-02	.2588-02	1.647	12.00	582.5
72	46.800	.80000	1053.0	.7178-01	.8764-01	.8112-01	.9364	.2516-02	.2844-02	1.810	13.18	582.5
72	93.600	.50000	1062.0	.8433-01	.1031	.9537-01	.9364	.2957-02	.3343-02	2.116	14.89	586.0
72	93.600	.60000	1063.0	.7141-01	.8732-01	.8078-01	.9364	.2504-02	.2832-02	1.789	11.82	587.1
72	93.600	.70000	1064.0	.6142-01	.7503-01	.6944-01	.9364	.2153-02	.2434-02	1.545	11.63	584.2
72	93.600	.80000	1065.0	.6691-01	.8160-01	.7556-01	.9364	.2346-02	.2649-02	1.696	11.98	578.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB26)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
25	.5071	7.900	39.99	2.019	101.0	1251.	92.77	.1122-01	.4903	3730.	.3265-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
25	.1715-01	.5679-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
25	46.800	.50000	1050.0	.8234-01	.1004	.9302-01	.9362	.1412-02	.1595-02	.9815	7.764	555.6
25	46.800	.60000	1051.0	.5567-01	.6784-01	.6287-01	.9362	.9547-03	.1078-02	.6655	5.901	553.7
25	46.800	.70000	1052.0	.6680-01	.8143-01	.7545-01	.9362	.1146-02	.1294-02	.7977	5.893	554.3
25	46.800	.80000	1053.0	.6288-01	.7660-01	.7099-01	.9362	.1078-02	.1218-02	.7534	5.572	552.0
25	93.600	.50000	1062.0	.8794-01	.1072	.9931-01	.9362	.1508-02	.1703-02	1.051	7.514	553.9
25	93.600	.60000	1063.0	.7614-01	.9279-01	.8598-01	.9362	.1306-02	.1475-02	.9099	6.112	553.8
25	93.600	.70000	1064.0	.6493-01	.7916-01	.7334-01	.9362	.1113-02	.1258-02	.7747	5.919	554.9
25	93.600	.80000	1065.0	.5790-01	.7051-01	.6536-01	.9362	.9930-03	.1121-02	.6949	4.976	550.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB26)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
40	1.021	7.940	40.02	2.016	206.8	1254.	92.12	.2225-01	.9818	3736.	.6518-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
40	.2428-01	.4021-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
40	46.800	.50000	1050.0	.7964-01	.9739-01	.9011-01	.9362	.1934-02	.2188-02	1.330	10.47	565.7
40	46.800	.60000	1051.0	.5227-01	.6389-01	.5913-01	.9362	.1269-02	.1436-02	.8746	7.714	564.5
40	46.800	.70000	1052.0	.6711-01	.8204-01	.7592-01	.9362	.1629-02	.1843-02	1.122	8.245	565.0
40	46.800	.80000	1053.0	.6044-01	.7385-01	.6835-01	.9362	.1467-02	.1660-02	1.013	7.446	563.5
40	93.600	.50000	1062.0	.8616-01	.1053	.9744-01	.9362	.2092-02	.2366-02	1.444	10.28	563.4
40	93.600	.60000	1063.0	.7126-01	.8711-01	.8061-01	.9362	.1730-02	.1957-02	1.192	7.965	564.6
40	93.600	.70000	1064.0	.6192-01	.7574-01	.7007-01	.9362	.1503-02	.1701-02	1.032	7.841	566.9
40	93.600	.80000	1065.0	.5596-01	.6834-01	.6327-01	.9362	.1359-02	.1536-02	.9403	6.698	561.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB26)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
69	2.003	7.980	40.01	2.011	433.8	1299.	94.54	.4516-01	2.013	3804.	.1289-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
69	.3498-01	.2869-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
69	46.800	.50000	1050.0	.7687-01	.9408-01	.8702-01	.9362	.2689-02	.3044-02	1.909	14.86	588.6
69	46.800	.60000	1051.0	.5039-01	.6160-01	.5701-01	.9362	.1763-02	.1994-02	1.258	10.98	585.1
69	46.800	.70000	1052.0	.6363-01	.7766-01	.7192-01	.9362	.2226-02	.2516-02	1.600	11.67	579.8
69	46.800	.80000	1053.0	.7131-01	.8702-01	.8058-01	.9362	.2494-02	.2819-02	1.794	13.09	579.5
69	93.600	.50000	1062.0	.8257-01	.1009	.9340-01	.9362	.2888-02	.3267-02	2.063	14.53	584.3
69	93.600	.60000	1063.0	.7019-01	.8579-01	.7940-01	.9362	.2455-02	.2777-02	1.753	11.60	584.6
69	93.600	.70000	1064.0	.6117-01	.7466-01	.6914-01	.9362	.2140-02	.2418-02	1.537	11.60	580.1
69	93.600	.80000	1065.0	.6491-01	.7909-01	.7329-01	.9362	.2270-02	.2564-02	1.644	11.64	574.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB27)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
28	.5063	7.900	40.02	4.000	100.5	1248.	92.54	.1116-01	.4878	3726.	.3256-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
28	.1710-01	.5686-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
28	46.800	.50000	1050.0	.8088-01	.9865-01	.9137-01	.9362	.1383-02	.1562-02	.9577	7.577	555.1
28	46.800	.60000	1051.0	.5548-01	.6762-01	.6265-01	.9362	.9486-03	.1071-02	.6590	5.847	552.9
28	46.800	.70000	1052.0	.6678-01	.8140-01	.7542-01	.9362	.1142-02	.1289-02	.7930	5.862	553.1
28	46.800	.80000	1053.0	.6265-01	.7632-01	.7072-01	.9362	.1071-02	.1209-02	.7464	5.524	550.9
28	93.600	.50000	1062.0	.8495-01	.1036	.9594-01	.9362	.1452-02	.1640-02	1.009	7.215	553.2
28	93.600	.60000	1063.0	.7433-01	.9059-01	.8393-01	.9362	.1271-02	.1435-02	.8833	5.938	552.6
28	93.600	.70000	1064.0	.6411-01	.7816-01	.7241-01	.9362	.1096-02	.1238-02	.7613	5.822	553.2
28	93.600	.80000*	1065.0	.5740-01	.6989-01	.6478-01	.9362	.9815-03	.1108-02	.6854	4.912	549.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB27)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
43	1.018	7.940	40.00	4.023	206.3	1254.	92.12	.2219-01	.9794	3736.	.6502-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
43	.2425-01	.4025-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
43	46.800	.50000	1050.0	.7748-01	.9476-01	.8768-01	.9362	.1879-02	.2126-02	1.291	10.16	566.3
43	46.800	.60000	1051.0	.5258-01	.6428-01	.5949-01	.9362	.1275-02	.1443-02	.8786	7.749	564.6
43	46.800	.70000	1052.0	.6447-01	.7883-01	.7294-01	.9362	.1563-02	.1769-02	1.076	7.901	565.7
43	46.800	.80000	1053.0	.6083-01	.7433-01	.6880-01	.9362	.1475-02	.1668-02	1.019	7.492	563.1
43	93.600	.50000	1062.0	.8246-01	.1008	.9327-01	.9362	.2000-02	.2262-02	1.380	9.825	563.3
43	93.600	.60000	1063.0	.7009-01	.8566-01	.7928-01	.9362	.1700-02	.1923-02	1.172	7.835	564.0
43	93.600	.70000	1064.0	.6198-01	.7578-01	.7013-01	.9362	.1503-02	.1701-02	1.034	7.860	565.5
43	93.600	.80000	1065.0	.5598-01	.6834-01	.6328-01	.9362	.1357-02	.1534-02	.9409	6.706	560.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB27)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
65	1.997	7.980	40.03	4.032	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
65	.3502-01	.2873-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
65	46.800	.50000	1050.0	.7604-01	.9304-01	.8606-01	.9363	.2663-02	.3014-02	1.898	14.76	590.0
65	46.800	.60000	1051.0	.5111-01	.6246-01	.5780-01	.9363	.1790-02	.2024-02	1.283	11.20	585.9
65	46.800	.70000	1052.0	.6599-01	.8050-01	.7456-01	.9363	.2311-02	.2611-02	1.671	12.19	579.7
65	46.800	.80000	1053.0	.7132-01	.8698-01	.8057-01	.9363	.2498-02	.2822-02	1.807	13.19	579.2
65	93.600	.50000	1062.0	.7988-01	.9759-01	.9033-01	.9363	.2797-02	.3163-02	2.007	14.13	585.1
65	93.600	.60000	1063.0	.6878-01	.8402-01	.7777-01	.9363	.2409-02	.2724-02	1.730	11.44	584.5
65	93.600	.70000	1064.0	.6320-01	.7709-01	.7140-01	.9363	.2213-02	.2500-02	1.600	12.08	579.6
65	93.600	.80000	1065.0	.6740-01	.8208-01	.7608-01	.9363	.2361-02	.2664-02	1.719	12.17	574.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB28)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
31	.5055	7.900	40.08	9.971	100.7	1251.	92.77	.1119-01	.4887	3730.	.3255-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
31	.1712-01	.5688-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
31	46.800	.50000	1050.0	.7816-01	.9530-01	.8826-01	.9364	.1338-02	.1511-02	.9304	7.361	555.4
31	46.800	.60000	1051.0	.5552-01	.6765-01	.6267-01	.9364	.9506-03	.1073-02	.6628	5.878	553.5
31	46.800	.70000	1052.0	.6583-01	.8022-01	.7431-01	.9364	.1127-02	.1272-02	.7857	5.807	553.6
31	46.800	.80000	1053.0	.6419-01	.7818-01	.7244-01	.9364	.1099-02	.1240-02	.7684	5.685	551.5
31	46.800	.50000	1062.0	.7816-01	.9523-01	.8822-01	.9364	.1338-02	.1511-02	.9339	6.682	552.8
31	93.600	.60000	1063.0	.7165-01	.8729-01	.8097-01	.9364	.1227-02	.1385-02	.8561	5.754	552.8
31	93.600	.70000	1064.0	.6383-01	.7778-01	.7206-01	.9364	.1093-02	.1234-02	.7621	5.827	553.4
31	93.600	.80000	1065.0	.5809-01	.7071-01	.6553-01	.9364	.9947-03	.1122-02	.6974	4.998	549.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UB28)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
46	1.011	7.940	40.01	10.10	207.3	1264.	92.86	.2230-01	.9842	3751.	.6482-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
46	.2434-01	.4035-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
46	46.800	.50000	1050.0	.7542-01	.9207-01	.8525-01	.9362	.1836-02	.2075-02	1.282	10.09	565.2
46	46.800	.60000	1051.0	.5305-01	.6475-01	.5996-01	.9362	.1291-02	.1460-02	.9031	7.966	564.4
46	46.800	.70000	1052.0	.6406-01	.7821-01	.7242-01	.9362	.1559-02	.1763-02	1.089	8.002	565.3
46	46.800	.80000	1053.0	.6336-01	.7729-01	.7159-01	.9362	.1542-02	.1743-02	1.081	7.953	562.7
46	93.600	.50000	1062.0	.7405-01	.9030-01	.8365-01	.9362	.1803-02	.2036-02	1.266	9.018	561.4
46	93.600	.60000	1063.0	.6791-01	.8285-01	.7673-01	.9362	.1653-02	.1868-02	1.158	7.746	562.9
46	93.600	.70000	1064.0	.6126-01	.7480-01	.6926-01	.9362	.1492-02	.1686-02	1.043	7.930	564.5
46	93.600	.80000	1065.0	.5694-01	.6938-01	.6429-01	.9362	.1386-02	.1565-02	.9764	6.964	559.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB75)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
59	1.995	7.980	40.01	10.00	433.9	1303.	94.84	.4517-01	2.014	3810.	.1286-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
59	.3500-01	.2874-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
59	46.800	.50000	1050.0	.7249-01	.8856-01	.8198-01	.9362	.2537-02	.2869-02	1.821	14.20	584.9
59	46.800	.60000	1051.0	.5097-01	.6220-01	.5761-01	.9362	.1784-02	.2016-02	1.287	11.26	581.2
59	46.800	.70000	1052.0	.6390-01	.7784-01	.7214-01	.9362	.2237-02	.2525-02	1.627	11.90	575.2
59	46.800	.80000	1053.0	.7239-01	.8817-01	.8172-01	.9362	.2534-02	.2860-02	1.844	13.48	574.9
59	93.600	.50000	1062.0	.7458-01	.9094-01	.8425-01	.9362	.2610-02	.2949-02	1.890	13.35	578.5
59	93.600	.60000	1063.0	.6605-01	.8055-01	.7462-01	.9362	.2312-02	.2612-02	1.673	11.10	579.1
59	93.600	.70000	1064.0	.6143-01	.7481-01	.6934-01	.9362	.2150-02	.2427-02	1.566	11.85	574.4
59	93.600	.80000	1065.0	.6862-01	.8343-01	.7738-01	.9362	.2402-02	.2708-02	1.762	12.51	569.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4U829)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = -12.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
717	.5091	7.900	39.99	.3469-02	100.3	1242.	92.10	.1115-01	.4869	3717.	.3266-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
717	.1707-01	.5674-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
717	46.800	.90000	1054.0	.5318-01	.6446-01	.5987-01	.9362	.9077-03	.1022-02	.6437	5.151	532.5
717	46.800	.95000	1055.0	.4338-01	.5259-01	.4883-01	.9362	.7404-03	.8336-03	.5249	4.704	532.8
717	46.800	.97500	1056.0	.3040-01	.3684-01	.3684-01	.9000	.5190-03	.6288-03	.3690	2.956	530.6
717	46.800	1.0450	59.000	.1943-01	.2350-01	.2350-01	.9000	.3317-03	.4011-03	.2383	1.788	523.3
717	46.800	1.0600	60.000	.1715-01	.2073-01	.2073-01	.9000	.2927-03	.3538-03	.2103	1.527	523.2
717	46.800	.90000	1066.0	.5473-01	.6633-01	.6240-01	.9297	.9342-03	.1065-02	.6629	4.953	532.0
717	93.600	.95000	1067.0	.6623-01	.8032-01	.7595-01	.9271	.1131-02	.1296-02	.8002	6.178	533.9
717	93.600	.97500	1068.0	.6509-01	.7895-01	.7484-01	.9258	.1111-02	.1277-02	.7859	6.284	534.3
717	93.600	1.0150	69.000	.2682-01	.3244-01	.3087-01	.9243	.4578-03	.5270-03	.3283	2.685	524.7
717	93.600	1.0300	70.000	.2448-01	.2960-01	.2817-01	.9243	.4178-03	.4808-03	.3000	2.369	523.8
717	93.600	1.0450	71.000	.2386-01	.2884-01	.2745-01	.9243	.4072-03	.4686-03	.2924	2.270	523.6
717	93.600	1.0600	72.000	.2038-01	.2464-01	.2346-01	.9243	.3480-03	.4004-03	.2499	2.084	523.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UB29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
715	X10 6 1.013	7.940	39.99	.3469-02	207.7	1264.	92.86	.2234-01	.9860	3751.	.6495-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
715	.2436-01	.4031-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
715	46.800	.90000	1054.0	.5280-01	.6401-01	.5944-01	.9362	.1286-02	.1448-02	.9279	7.389	542.4
715	46.800	.95000	1055.0	.4299-01	.5211-01	.4839-01	.9362	.1047-02	.1179-02	.7562	6.747	541.7
715	46.800	.97500	1056.0	.2983-01	.3613-01	.3613-01	.9000	.7268-03	.8803-03	.5267	4.202	539.0
715	46.800	1.0450	59.000	.2045-01	.2468-01	.2468-01	.9000	.4982-03	.6013-03	.3668	2.747	527.3
715	46.800	1.0600	60.000	.1871-01	.2258-01	.2258-01	.9000	.4558-03	.5500-03	.3360	2.437	526.4
715	46.800	.90000	1066.0	.5540-01	.6713-01	.6316-01	.9297	.1350-02	.1539-02	.9757	7.257	540.8
715	93.600	.95000	1067.0	.7180-01	.8701-01	.8229-01	.9271	.1749-02	.2005-02	1.264	9.727	541.0
715	93.600	.97500	1068.0	.7008-01	.8496-01	.8055-01	.9258	.1708-02	.1963-02	1.232	9.811	542.2
715	93.600	1.0150	69.000	.2655-01	.3208-01	.3054-01	.9243	.6468-03	.7441-03	.4738	3.864	531.2
715	93.600	1.0300	70.000	.2477-01	.2991-01	.2848-01	.9243	.6035-03	.6939-03	.4434	3.493	528.9
715	93.600	1.0450	71.000	.2425-01	.2927-01	.2787-01	.9243	.5908-03	.6791-03	.4348	3.368	527.7
715	93.600	1.0600	72.000	.2213-01	.2671-01	.2543-01	.9243	.5392-03	.6197-03	.3975	3.309	526.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6 2.011	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
709		7.980	40.04	.1046-01	432.9	1294.	94.18	.4507-01	2.009	3796.	.1292-02	.7579-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
709	.3492-01	.2865-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
709	46.800	.90000	1054.0	.9381-01	.1143	.1059	.9363	.3276-02	.3698-02	2.366	18.56	571.6
709	46.800	.95000	1055.0	.9212-01	.1123	.1040	.9363	.3217-02	.3632-02	2.319	20.36	573.0
709	46.800	.97500	1056.0	.7828-01	.9524-01	.9524-01	.9000	.2734-02	.3326-02	1.987	15.63	566.9
709	46.800	1.0450	59.000	.3219-01	.3880-01	.3880-01	.9000	.1124-02	.1355-02	.8533	6.367	534.6
709	46.800	1.0600	60.000	.2956-01	.3562-01	.3562-01	.9000	.1032-02	.1244-02	.7849	5.672	533.3
709	93.600	.90000	1066.0	.8948-01	.1089	.1023	.9298	.3125-02	.3572-02	2.266	16.62	568.5
709	93.600	.95000	1067.0	.1125	.1370	.1293	.9272	.3927-02	.4515-02	2.840	21.53	570.4
709	93.600	.97500	1068.0	.1169	.1424	.1348	.9259	.4082-02	.4708-02	2.945	23.11	572.2
709	93.600	1.0150	69.000	.4243-01	.5120-01	.4874-01	.9244	.1482-02	.1702-02	1.119	9.090	538.5
709	93.600	1.0300	70.000	.3398-01	.4097-01	.3901-01	.9244	.1186-02	.1362-02	.8994	7.061	535.6
709	93.600	1.0450	71.000	.3165-01	.3816-01	.3634-01	.9244	.1105-02	.1269-02	.8392	6.478	534.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UB29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
707	3.005	7.990	40.06	.6989-02	671.7	1324.	96.14	.6037-01	3.100	3841.	.1947-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
707	.4355-01	.2339-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
707	46.800	.90000	1054.0	.2040	.2500	.2311	.9363	.8883-02	.1006-01	6.388	49.31	604.6
707	46.800	.95000	1055.0	.1922	.2358	.2179	.9363	.8371-02	.9488-02	5.995	51.76	607.5
707	46.800	.97500	1056.0	.1748	.2139	.2139	.9000	.7612-02	.9315-02	5.514	42.68	599.3
707	46.800	1.0450	59.000	.5615-01	.6775-01	.6775-01	.9000	.2445-02	.2951-02	1.889	13.98	551.0
707	46.800	1.0600	60.000	.5302-01	.6393-01	.6393-01	.9000	.2309-02	.2784-02	1.790	12.83	548.5
707	46.800	.90000	1066.0	.2010	.2459	.2305	.9298	.8753-02	.1004-01	6.340	45.80	599.4
707	93.600	.95000	1067.0	.2116	.2590	.2441	.9272	.9214-02	.1063-01	6.663	49.76	600.5
707	93.600	.97500	1068.0	.2169	.2659	.2512	.9259	.9444-02	.1094-01	6.782	52.33	605.6
707	93.600	1.0150	69.000	.6421-01	.7762-01	.7385-01	.9244	.2796-02	.3216-02	2.142	17.23	557.7
707	93.600	1.0300	70.000	.5223-01	.6302-01	.5999-01	.9244	.2274-02	.2613-02	1.758	13.69	550.8
707	93.600	1.0450	71.000	.4861-01	.5862-01	.5581-01	.9244	.2117-02	.2431-02	1.641	12.58	548.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB30)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
719	.5000	7.900	39.98	.3465-02	100.3	1257.	93.21	.1115-01	.4869	3739.	.3227-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
719	.1711-01	.5715-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
719	46.800	.90000	1054.0	.5066-01	.6129-01	.5697-01	.9362	.8666-03	.9745-03	.6282	5.029	531.8
719	46.800	.95000	1055.0	.4379-01	.5297-01	.4924-01	.9362	.7491-03	.8422-03	.5433	4.873	531.3
719	46.800	.97500	1056.0	.3078-01	.3722-01	.3722-01	.9000	.5264-03	.6366-03	.3822	3.062	530.6
719	46.800	1.0300	58.000	.3464-01	.4186-01	.4186-01	.9000	.5926-03	.7160-03	.4318	3.233	528.0
719	46.800	1.0450	59.000	.3489-01	.4216-01	.4216-01	.9000	.5968-03	.7212-03	.4348	3.255	528.2
719	46.800	1.0600	60.000	.3398-01	.4105-01	.4105-01	.9000	.5812-03	.7022-03	.4237	3.070	527.7
719	46.800	.90000	1066.0	.5327-01	.6442-01	.6065-01	.9297	.9111-03	.1038-02	.6611	4.942	531.1
719	93.600	.95000	1067.0	.6772-01	.8192-01	.7752-01	.9271	.1158-02	.1326-02	.8396	6.490	531.8
719	93.600	.97500	1068.0	.6562-01	.7940-01	.7533-01	.9258	.1122-02	.1289-02	.8125	6.501	532.8
719	93.600	1.0150	69.000	.3756-01	.4541-01	.4322-01	.9242	.6424-03	.7393-03	.4668	3.808	530.1
719	93.600	1.0300	70.000	.4294-01	.5190-01	.4940-01	.9242	.7345-03	.8450-03	.5346	4.211	528.8
719	93.600	1.0450	71.000	.4530-01	.5475-01	.5211-01	.9242	.7748-03	.8914-03	.5642	4.369	528.5
719	93.600	1.0600	72.000	.4219-01	.5098-01	.4853-01	.9242	.7216-03	.8301-03	.5258	4.374	528.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB30)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
713	.9943	7.940	39.99	.6941-02	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
713	.2417-01	.4069-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
713	46.800	.90000	1054.0	.5178-01	.6278-01	.5830-01	.9362	.1251-02	.1409-02	.9036	7.191	543.6
713	46.800	.95000	1055.0	.4232-01	.5131-01	.4764-01	.9362	.1023-02	.1152-02	.7387	6.585	543.5
713	46.800	.97500	1056.0	.2951-01	.3574-01	.3574-01	.9000	.7134-03	.8639-03	.5182	4.133	539.3
713	46.800	1.0300	58.000	.3587-01	.4335-01	.4335-01	.9000	.8669-03	.1048-02	.6353	4.745	532.8
713	46.800	1.0450	59.000	.3600-01	.4353-01	.4353-01	.9000	.8702-03	.1052-02	.6370	4.755	533.7
713	46.800	1.0600	60.000	.3466-01	.4189-01	.4189-01	.9000	.8377-03	.1013-02	.6138	4.436	533.0
713	46.800	1.0600	60.000	.3466-01	.4189-01	.4189-01	.9000	.1269-02	.1447-02	.9181	6.824	542.3
713	93.600	.90000	1066.0	.5250-01	.6364-01	.5987-01	.9297	.1684-02	.1931-02	1.217	9.350	543.4
713	93.600	.95000	1067.0	.6969-01	.8449-01	.7989-01	.9271	.1662-02	.1911-02	1.200	9.551	543.6
713	93.600	.97500	1068.0	.6877-01	.8339-01	.7906-01	.9258	.9218-03	.1061-02	.6734	5.480	535.1
713	93.600	1.0150	69.000	.3814-01	.4613-01	.4390-01	.9243	.1023-02	.1177-02	.7472	5.867	535.0
713	93.600	1.0300	70.000	.4230-01	.5117-01	.4869-01	.9243	.1075-02	.1238-02	.7854	6.060	535.2
713	93.600	1.0450	71.000	.4448-01	.5380-01	.5120-01	.9243					

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

PAGE 355

(R4UB30)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
711	1.999	7.980	40.06	.1048-01	436.8	1307.	95.13	.4548-01	2.027	3815.	.1290-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
711	.3514-01	.2870-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
711	46.800	.90000	1054.0	.8831-01	.1073	.9955-01	.9363	.3103-02	.3498-02	2.288	17.97	569.4
711	46.800	.95000	1055.0	.8810-01	.1071	.9933-01	.9363	.3096-02	.3490-02	2.278	20.03	570.7
711	46.800	.97500	1056.0	.7447-01	.9043-01	.9043-01	.9000	.2617-02	.3178-02	1.937	15.24	566.4
711	46.800	1.0300	58.000	.9616-01	.1165	.1165	.9000	.3379-02	.4093-02	2.530	18.66	557.8
711	46.800	1.0450	59.000	.9791-01	.1187	.1187	.9000	.3441-02	.4170-02	2.569	18.93	559.9
711	46.800	1.0600	60.000	.9141-01	.1107	.1107	.9000	.3212-02	.3891-02	2.405	17.16	558.0
711	46.800	.90000	1066.0	.8911-01	.1082	.1017	.9298	.3131-02	.3574-02	2.316	17.00	566.9
711	93.600	.95000	1067.0	.1136	.1381	.1305	.9272	.3994-02	.4584-02	2.948	22.37	568.5
711	93.600	.97500	1068.0	.1149	.1398	.1324	.9259	.4039-02	.4651-02	2.969	23.30	571.5
711	93.600	1.0150	69.000	.7693-01	.9335-01	.8873-01	.9244	.2703-02	.3118-02	2.009	16.12	563.5
711	93.600	1.0300	70.000	.8598-01	.1043	.9912-01	.9244	.3021-02	.3483-02	2.250	17.43	561.8
711	93.600	1.0450	71.000	.9644-01	.1169	.1112	.9244	.3389-02	.3906-02	2.527	19.25	560.9

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

(R4UB30)

PARAMETRIC DATA

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MACH      = 8.0000      ALPHA    = 40.00      BETA     = .0000      ELEVON   = -15.00
BDFLAP    = .0000      SPOBRK   = .0000

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TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
705	X10.6 3.029	7.990	40.07	.3498-02	670.2	1315.	95.49	.6921-01	3.093	3827.	.1956-02	.7684-07

RUN	HREF	STN NO
NUMBER	BTU/ R	REF(R)
	FT2SEC	= .0175
705	.4345-01	.2332-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
705	46.800	.90000	1054.0	.2085	.2560	.2364	.9364	.9061-02	.1027-01	6.421	49.53	606.0
705	46.800	.95000	1055.0	.1944	.2390	.2206	.9364	.8448-02	.9586-02	5.955	51.36	609.8
705	46.800	.97500	1056.0	.1769	.2168	.2168	.9000	.7686-02	.9420-02	5.490	42.48	600.3
705	46.800	1.0300	58.000	.1799	.2192	.2192	.9000	.7817-02	.9525-02	5.733	41.79	581.2
705	46.800	1.0450	59.000	.1747	.2132	.2132	.9000	.7592-02	.9264-02	5.529	40.20	586.3
705	46.800	1.0600	60.000	.1583	.1930	.1930	.9000	.6877-02	.8384-02	5.028	35.43	583.4
705	93.600	.90000	1066.0	.2044	.2505	.2347	.9299	.8880-02	.1020-01	6.341	45.78	600.5
705	93.600	.95000	1067.0	.2115	.2594	.2443	.9273	.9189-02	.1061-01	6.544	48.82	602.6
705	93.600	.97500	1068.0	.2188	.2687	.2537	.9260	.9505-02	.1102-01	6.725	51.85	607.2
705	93.600	1.0150	69.000	.1704	.2083	.1976	.9244	.7404-02	.8584-02	5.351	42.32	592.0
705	93.600	1.0300	70.000	.1645	.2008	.1905	.9244	.7146-02	.8276-02	5.198	39.77	587.3
705	93.600	1.0450	71.000	.1783	.2178	.2066	.9244	.7749-02	.8977-02	5.625	42.26	588.7

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R40B31)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
725	.4997	7.900	39.98	-.1733-01	100.5	1259.	93.36	.1117-01	.4878	3742.	.3228-03	.7513-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
725	.1713-01	.5716-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
725	46.800	.90000	1054.0	.4905-01	.5946-01	.5522-01	.9362	.8400-03	.9457-03	.6039	4.816	539.7
725	46.800	.95000	1055.0	.4201-01	.5092-01	.4729-01	.9362	.7195-03	.8099-03	.5175	4.623	539.4
725	46.800	.97500	1056.0	.3054-01	.3700-01	.3700-01	.9000	.6230-03	.6336-03	.3773	3.012	537.4
725	46.800	1.0450	59.000	.1737-01	.2101-01	.2101-01	.9000	.2975-03	.3598-03	.2166	1.619	530.9
725	46.800	1.0600	60.000	.1551-01	.1875-01	.1875-01	.9000	.2656-03	.3211-03	.1933	1.398	530.9
725	93.600	.90000	1066.0	.5315-01	.6442-01	.6051-01	.9297	.9102-03	.1038-02	.6548	4.874	539.3
725	93.600	.95000	1067.0	.6542-01	.7932-01	.7501-01	.9271	.1120-02	.1285-02	.8047	6.193	540.5
725	93.600	.97500	1068.0	.6432-01	.7800-01	.7395-01	.9258	.1102-02	.1266-02	.7907	6.301	540.8
725	93.600	1.0150	69.000	.2508-01	.3034-01	.2887-01	.9242	.4295-03	.4945-03	.3120	2.542	532.4
725	93.600	1.0300	70.000	.2297-01	.2778-01	.2644-01	.9242	.3934-03	.4528-03	.2861	2.250	531.5
725	93.600	1.0450	71.000	.2193-01	.2652-01	.2524-01	.9242	.3756-03	.4323-03	.2731	2.112	531.4
725	93.600	1.0600	72.000	.2918-01	.3525-01	.3356-01	.9242	.4997-03	.5747-03	.3655	3.042	527.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB31)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
739	.9893	7.940	39.98	-.2427-01	204.0	1269.	93.22	.2194-01	.9684	3758.	.6353-03	.7502-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
739	.2416-01	.4077-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. P /SEC	TW DEG. R
739	46.800	.90000	1054.0	.5077-01	.6162-01	.5720-01	.9362	.1227-02	.1382-02	.8839	7.018	548.1
739	46.800	.95000	1055.0	.4212-01	.5112-01	.4745-01	.9362	.1018-02	.1147-02	.7329	6.517	548.4
739	46.800	.97500	1056.0	.2900-01	.3517-01	.3517-01	.9000	.7007-03	.8498-03	.5066	4.028	545.6
739	46.800	1.0450	59.000	.2018-01	.2440-01	.2440-01	.9000	.4876-03	.5895-03	.3578	2.669	534.9
739	46.800	1.0600	60.000	.1774-01	.2144-01	.2144-01	.9000	.4286-03	.5181-03	.3147	2.273	534.4
739	93.600	.90000	1066.0	.5234-01	.6351-01	.5973-01	.9297	.1265-02	.1443-02	.9120	6.761	547.5
739	93.600	.95000	1067.0	.7066-01	.8578-01	.8108-01	.9271	.1707-02	.1959-02	1.229	9.417	548.9
739	93.600	.97500	1068.0	.6863-01	.8334-01	.7898-01	.9258	.1658-02	.1908-02	1.192	9.454	550.0
739	93.600	1.0150	69.000	.2704-01	.3272-01	.3113-01	.9242	.6534-03	.7523-03	.4778	3.883	537.5
739	93.600	1.0300	70.000	.2534-01	.3065-01	.2917-01	.9242	.6123-03	.7048-03	.4485	3.520	536.2
739	93.600	1.0450	71.000	.2425-01	.2933-01	.2791-01	.9242	.5860-03	.6744-03	.4294	3.313	535.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 359

OH84B 60-0 FUSELAGE

(R4UB31)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -12.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
737	X10 6 2.003	7.980	40.04	-.2093-01	434.1	1300.	94.62	.4520-01	2.015	3805.	.1289-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
737	.3500-01	.2870-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
737	46.800	.90000	1054.0	.9589-01	.1167	.1082	.9363	.3356-02	.3786-02	2.446	19.21	570.7
737	46.800	.95000	1055.0	.9056-01	.1103	.1022	.9363	.3169-02	.3577-02	2.304	20.24	572.6
737	46.800	.97500	1056.0	.7690-01	.9351-01	.9351-01	.9000	.2691-02	.3273-02	1.970	15.48	567.9
737	46.800	1.0450	59.000	.3514-01	.4245-01	.4245-01	.9000	.1230-02	.1486-02	.9283	6.891	544.9
737	46.800	1.0600	60.000	.3287-01	.3970-01	.3970-01	.9000	.1150-02	.1399-02	.8693	6.247	544.1
737	92.600	.90000	1066.0	.9007-01	.1096	.1029	.9298	.3152-02	.3602-02	2.303	16.89	568.9
737	93.600	.95000	1067.0	.1138	.1385	.1308	.9272	.3982-02	.4576-02	2.904	22.01	570.5
737	93.600	.97500	1068.0	.1168	.1422	.1346	.9259	.4087-02	.4711-02	2.971	23.30	572.7
737	93.600	1.0150	69.000	.4306-01	.5204-01	.4952-01	.9244	.1507-02	.1733-02	1.135	9.180	546.7
737	93.600	1.0300	70.000	.3751-01	.4532-01	.4313-01	.9244	.1313-02	.1509-02	.9896	7.729	545.7
737	93.600	1.0450	71.000	.3609-01	.4360-01	.4150-01	.9244	.1263-02	.1452-02	.9522	7.309	545.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 360

OH84B 60-0 FUSELAGE

(R4UB31)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BOFLAP = -12.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
727	3.035	7.990	40.06	-2.097-01	670.9	1314.	95.41	.6928-01	3.096	3826.	.1960-02	.7678-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
727	.4347-01	.2330-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
727	46.800	.90000	1054.0	.2074	.2539	.2347	.9363	.9015-02	.1020-01	6.470	50.16	596.0
727	46.800	.95000	1055.0	.1946	.2386	.2205	.9363	.8460-02	.9585-02	6.031	52.25	600.8
727	46.800	.97500	1056.0	.1765	.2158	.2158	.9000	.7673-02	.9379-02	5.542	43.07	591.4
727	46.800	1.0450	59.000	.5518-01	.6656-01	.6656-01	.9000	.2399-02	.2893-02	1.843	13.68	545.4
727	46.800	1.0600	60.000	.5168-01	.6231-01	.6231-01	.9000	.2246-02	.2709-02	1.729	12.43	543.8
727	93.600	.90000	1066.0	.2027	.2478	.2324	.9298	.8812-02	.1010-01	6.364	46.15	591.5
727	93.600	.95000	1067.0	.2103	.2573	.2425	.9272	.9140-02	.1054-01	6.570	49.21	594.9
727	93.600	.97500	1068.0	.2172	.2662	.2515	.9259	.9440-02	.1093-01	6.730	52.05	600.8
727	93.600	1.0150	69.000	.6330-01	.7890-01	.7508-01	.9244	.2838-02	.3263-02	2.164	17.46	551.4
727	93.600	1.0300	70.000	.5327-01	.6426-01	.6118-01	.9244	.2315-02	.2659-02	1.778	13.89	545.7
727	93.600	1.0450	71.000	.4982-01	.6009-01	.5721-01	.9244	.2186-02	.2487-02	1.664	12.78	545.1
727	93.600	1.0600	72.000	.4183-01	.5039-01	.4800-01	.9244	.1818-02	.2086-02	1.406	11.63	540.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 361

OH84B 60-0 FUSELAGE

(R4UB30)

FUSELAGE

PARAM: IRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
723	.4957	7.900	39.97	-1731-01	100.1	1263.	93.66	.1113-01	.4862	3748.	.3207-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
723	.1711-01	.5736-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
723	46.800	.90000	1054.0	.5168-01	.6256-01	.5814-01	.9361	.8840-03	.9945-03	.6417	5.124	536.8
723	46.800	.95000	1055.0	.4508-01	.5454-01	.5070-01	.9361	.7711-03	.8672-03	.5613	5.025	534.8
723	46.800	.97500	1056.0	.3128-01	.3784-01	.3784-01	.9000	.5351-03	.6473-03	.3898	3.117	534.2
723	46.800	1.0450	59.000	.2886-01	.3483-01	.3483-01	.9000	.4937-03	.5958-03	.3637	2.725	526.1
723	46.800	1.0600	60.000	.2732-01	.3297-01	.3297-01	.9000	.4674-03	.5639-03	.3447	2.501	525.3
723	46.800	.90000	1066.0	.5471-01	.6620-01	.6232-01	.9296	.9359-03	.1066-02	.6811	5.081	534.9
723	93.600	.95000	1067.0	.6988-01	.8454-01	.8000-01	.9270	.1195-02	.1368-02	.8705	6.720	534.4
723	93.600	.97500	1068.0	.6668-01	.8066-01	.7653-01	.9257	.1141-02	.1309-02	.8306	6.641	534.4
723	93.600	1.0150	69.000	.3477-01	.4201-01	.3999-01	.9242	.5948-03	.6841-03	.4362	3.560	529.3
723	93.600	1.0300	70.000	.3514-01	.4243-01	.4040-01	.9242	.6011-03	.6911-03	.4419	3.483	527.6
723	93.600	1.0450	71.000	.3589-01	.4332-01	.4126-01	.9242	.6140-03	.7057-03	.4521	3.505	526.3
723	93.600	1.0600	72.000	.3254-01	.3927-01	.3740-01	.9242	.5567-03	.6397-03	.4105	3.420	525.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 362

OH84B 60-0 FUSELAGE

(R4UB32)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
741	.9943	7.940	39.99	-.2082-01	204.3	1266.	93.00	.2198-01	.9699	3754.	.6378-03	.7484-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
741	.2417-01	.4069-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
741	46.800	.90000	1054.0	.5034-01	.6112-01	.5672-01	.9362	.1217-02	.1371-02	.8730	6.931	548.2
741	46.800	.95000	1055.0	.4228-01	.5133-01	.4764-01	.9362	.1022-02	.1152-02	.7334	6.522	548.0
741	46.800	.97500	1056.0	.2999-01	.3637-01	.3637-01	.9000	.7249-03	.8792-03	.5226	4.157	544.7
741	46.800	1.0450	59.000	.2707-01	.3279-01	.3278-01	.9000	.6542-03	.7923-03	.4751	3.536	539.5
741	46.800	1.0600	60.000	.2508-01	.3037-01	.3037-01	.9000	.6061-03	.7340-03	.4403	3.172	539.2
741	93.600	.90000	1066.0	.5281-01	.6410-01	.6028-01	.9297	.1276-02	.1457-02	.9166	6.795	547.5
741	93.600	.95000	1067.0	.7096-01	.8616-01	.8144-01	.9271	.1715-02	.1968-02	1.231	9.438	548.0
741	93.600	.97500	1068.0	.6911-01	.8392-01	.7953-01	.9258	.1671-02	.1922-02	1.198	9.511	548.5
741	93.600	1.0150	69.000	.3438-01	.4163-01	.3961-01	.9243	.8309-03	.9573-03	.6033	4.899	539.6
741	93.600	1.0300	70.000	.3311-01	.4010-01	.3814-01	.9243	.8003-03	.9220-03	.5814	4.555	539.3
741	93.600	1.0450	71.000	.3458-01	.4188-01	.3984-01	.9243	.8358-03	.9629-03	.6066	4.670	539.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 363

OH84B 60-0 FUSELAGE

(R4UB32)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
735	1.997	7.980	40.06	-2.095-01	434.8	1304.	94.91	.4527-01	2.018	3811.	.1287-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
735	.3504-01	.2873-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
735	46.800	.90000	1054.0	.9496-01	.1153	.1070	.9363	.3328-02	.3750-02	2.455	19.32	565.9
735	46.800	.95000	1055.0	.9197-01	.1118	.1037	.9363	.3223-02	.3633-02	2.373	20.90	567.4
735	46.800	.97500	1056.0	.7607-01	.9234-01	.9234-01	.9000	.2666-02	.3236-02	1.973	15.54	563.7
735	46.800	1.0450	59.000	.6664-01	.8055-01	.8055-01	.9000	.2335-02	.2823-02	1.764	13.07	548.5
735	46.800	1.0600	60.000	.6399-01	.7731-01	.7731-01	.9000	.2243-02	.2709-02	1.698	12.18	546.7
735	46.800	.90000	1066.0	.9025-01	.1096	.1030	.9298	.3163-02	.3609-02	2.340	17.21	563.7
735	93.600	.90000	1067.0	.1154	.1401	.1324	.9272	.4044-02	.4640-02	2.987	22.71	565.0
735	93.600	.95000	1068.0	.1176	.1429	.1353	.9259	.4120-02	.4742-02	3.032	23.84	567.8
735	93.600	.97500	1068.0	.1176	.1429	.1353	.9259	.4120-02	.4742-02	3.032	23.84	567.8
735	93.600	1.0150	69.000	.6299-01	.7619-01	.7248-01	.9244	.2207-02	.2540-02	1.661	13.41	551.1
735	93.600	1.0300	70.000	.6276-01	.7587-01	.7219-01	.9244	.2199-02	.2530-02	1.659	12.94	549.2
735	93.600	1.0450	71.000	.6660-01	.8051-01	.7660-01	.9244	.2334-02	.2684-02	1.761	13.49	549.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 36

OH84B 60-0 FUSELAGE

(R4UB32)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BOFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
729	3.003	7.990	40.07	-.2097-01	668.3	1320.	95.85	.6901-01	3.084	3835.	.1943-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
729	.4342-01	.2341-01

TEST DATA

RUN NUMBER	Y0	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
729	46.800	.90000	1054.0	.2061	.2523	.2333	.9363	.8949-02	.1013-01	6.453	49.96	598.7
729	46.800	.95000	1055.0	.1939	.2375	.2195	.9363	.8413-02	.9529-02	6.035	52.24	602.3
729	46.800	.97500	1056.0	.1766	.2158	.2158	.9000	.7665-02	.9368-02	5.565	43.19	593.7
729	46.800	1.0450	59.000	.1180	.1432	.1432	.9000	.5124-02	.6216-02	3.849	28.23	568.5
729	46.800	1.0600	60.000	.1148	.1391	.1391	.9000	.4984-02	.6040-02	3.761	26.74	565.0
729	93.600	.90000	1066.0	.2017	.2465	.2312	.9299	.8756-02	.1004-01	6.353	46.01	594.2
729	93.600	.95000	1067.0	.2112	.2582	.2434	.9272	.9169-02	.1057-01	6.643	49.75	595.1
729	93.600	.97500	1068.0	.2177	.2666	.2519	.9259	.9451-02	.1094-01	6.802	52.63	600.0
729	93.600	1.0150	69.000	.1076	.1306	.1242	.9244	.4673-02	.5391-02	3.502	28.00	570.3
729	93.600	1.0300	70.000	.1078	.1308	.1243	.9244	.4681-02	.5397-02	3.521	27.20	567.5
729	93.600	1.0450	71.000	.1178	.1430	.1359	.9244	.5116-02	.5901-02	3.837	29.10	569.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 365

OH84B 60-0 FUSELAGE

(R4UB33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
721	.5028	7.900	39.98	-.1386-01	100.9	1257.	93.21	.1121-01	.4897	3739.	.3245-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
721	.1715-01	.5699-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
721	46.800	.90000	1054.0	.5450-01	.6603-01	.6134-01	.9362	.9348-03	.1052-02	.6727	5.371	537.1
721	46.800	.95000	1055.0	.4475-01	.5420-01	.5035-01	.9362	.7675-03	.8637-03	.5531	4.948	536.1
721	46.800	.97500	1056.0	.3118-01	.3775-01	.3775-01	.9000	.5348-03	.6475-03	.3859	3.084	535.1
721	46.800	1.0300	58.000	.3484-01	.4213-01	.4213-01	.9000	.5975-03	.7227-03	.4336	3.241	531.0
721	46.800	1.0450	59.000	.3508-01	.4243-01	.4243-01	.9000	.6018-03	.7279-03	.4367	3.264	531.1
721	46.800	1.0600	60.000	.3393-01	.4103-01	.4103-01	.9000	.5820-03	.7039-03	.4226	3.058	530.6
721	46.800	.90000	1066.0	.5435-01	.6583-01	.6195-01	.9297	.9323-03	.1063-02	.6719	5.010	536.1
721	93.600	.95000	1067.0	.6775-01	.8206-01	.7762-01	.9271	.1162-02	.1331-02	.8371	6.456	536.3
721	93.600	.97500	1068.0	.6616-01	.8015-01	.7601-01	.9258	.1135-02	.1304-02	.8171	6.526	536.7
721	93.600	1.0150	69.000	.3736-01	.4521-01	.4302-01	.9242	.6409-03	.7380-03	.4638	3.778	533.0
721	93.600	1.0300	70.000	.4149-01	.5020-01	.4777-01	.9242	.7117-03	.8194-03	.5155	4.054	532.3
721	93.600	1.0450	71.000	.4483-01	.5422-01	.5160-01	.9242	.7690-03	.8852-03	.5578	4.313	531.3
721	93.600	1.0600	72.000	.4321-01	.5226-01	.4973-01	.9242	.7411-03	.8531-03	.5378	4.467	531.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
743	1.018	7.940	39.99	-2.081-01	209.4	1267.	93.08	.2253-01	.9941	3755.	.6532-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
743	.2447-01	.4021-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
743	46.800	.90000	1054.0	.4905-01	.5957-01	.5528-01	.9362	.1201-02	.1353-02	.8609	6.831	549.6
743	46.800	.95000	1055.0	.4272-01	.5188-01	.4814-01	.9362	.1046-02	.1178-02	.7501	6.667	549.2
743	46.800	.97500	1056.0	.3111-01	.3774-01	.3774-01	.9000	.7615-03	.9238-03	.5490	4.364	545.7
743	46.800	1.0300	58.000	.3529-01	.4275-01	.4275-01	.9000	.8637-03	.1046-02	.6266	4.660	541.1
743	46.800	1.0450	59.000	.3573-01	.4331-01	.4331-01	.9000	.8745-03	.1060-02	.6329	4.702	543.0
743	46.800	1.0600	60.000	.3505-01	.4249-01	.4249-01	.9000	.8580-03	.1040-02	.6213	4.468	542.5
743	93.600	.90000	1066.0	.5380-01	.6533-01	.6142-01	.9297	.1317-02	.1503-02	.9455	7.005	548.7
743	93.600	.95000	1067.0	.7214-01	.8760-01	.8279-01	.9271	.1766-02	.2026-02	1.267	9.712	548.9
743	93.600	.97500	1068.0	.7075-01	.8592-01	.8142-01	.9258	.1732-02	.1993-02	1.242	9.858	549.2
743	93.600	1.0150	69.000	.3664-01	.4441-01	.4224-01	.9242	.8967-03	.1034-02	.6488	5.259	543.1
743	93.600	1.0300	70.000	.4135-01	.5013-01	.4768-01	.9242	.1012-02	.1167-02	.7315	5.719	543.8
743	93.600	1.0450	71.000	.4423-01	.5363-01	.5100-01	.9242	.1082-02	.1248-02	.7816	6.003	544.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
733	1.990	7.980	40.04	-.2091-01	433.8	1305.	94.98	.4516-01	2.013	3813.	.1283-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
733	.3501-01	.2877-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
733	46.800	.90000	1054.0	.8970-01	.1090	.1011	.9363	.3140-02	.3540-02	2.312	18.17	568.4
733	46.800	.95000	1055.0	.8871-01	.1079	.1001	.9363	.3106-02	.3503-02	2.278	20.03	571.1
733	46.800	.97500	1056.0	.7520-01	.9135-01	.9135-01	.9000	.2633-02	.3198-02	1.943	15.28	566.7
733	46.800	1.0300	58.000	.9717-01	.1178	.1178	.9000	.3402-02	.4123-02	2.538	18.71	558.5
733	46.800	1.0450	59.000	.9842-01	.1194	.1194	.9000	.3445-02	.4179-02	2.561	18.86	561.3
733	46.800	1.0600	60.000	.9088-01	.1102	.1102	.9000	.3182-02	.3857-02	2.369	16.89	559.9
733	93.600	.90000	1066.0	.8754-01	.1064	.9996-01	.9298	.3065-02	.3499-02	2.261	16.60	567.0
733	93.600	.95000	1067.0	.1131	.1375	.1298	.9272	.3958-02	.4545-02	2.908	22.05	569.9
733	93.600	.97500	1068.0	.1148	.1398	.1323	.9259	.4020-02	.4633-02	2.941	23.06	573.1
733	93.600	1.0150	69.000	.7721-01	.9370-01	.8907-01	.9244	.2703-02	.3118-02	2.004	16.08	563.2
733	93.600	1.0300	70.000	.8746-01	.1061	.1009	.9244	.3062-02	.3531-02	2.274	17.62	561.9
733	93.600	1.0450	71.000	.9655-01	.1171	.1114	.9244	.3380-02	.3898-02	2.509	19.09	562.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
731	3.017	7.990	40.06	-.2096-01	671.5	1320.	95.85	.6935-01	3.099	3835.	.1953-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
731	.4352-01	.2335-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
731	46.800	.90000	1054.0	.2048	.2508	.2319	.9363	.8913-02	.1009-01	6.417	49.66	599.7
731	46.800	.95000	1055.0	.1939	.2376	.2196	.9363	.8438-02	.9558-02	6.051	52.37	602.6
731	46.800	.97500	1056.0	.1761	.2153	.2153	.9000	.7664-02	.9369-02	5.555	43.10	594.8
731	46.800	1.0300	58.000	.1803	.2193	.2193	.9000	.7849-02	.9544-02	5.831	42.60	576.7
731	46.800	1.0450	59.000	.1749	.2130	.2130	.9000	.7613-02	.9268-02	5.626	41.02	580.7
731	46.800	1.0600	60.000	.1591	.1935	.1935	.9000	.6923-02	.8420-02	5.140	36.33	577.3
731	93.600	.90000	1066.0	.2033	.2485	.2330	.9298	.8847-02	.1014-01	6.420	46.50	594.0
731	93.600	.95000	1067.0	.2116	.2587	.2439	.9272	.9209-02	.1061-01	6.676	50.00	594.7
731	93.600	.97500	1068.0	.2181	.2671	.2524	.9259	.9490-02	.1098-01	6.826	52.80	600.4
731	93.600	1.0150	69.000	.1676	.2044	.1940	.9244	.7292-02	.8444-02	5.334	42.27	588.2
731	93.600	1.0300	70.000	.1706	.2078	.1973	.9244	.7426-02	.8587-02	5.478	42.02	581.9
731	93.600	1.0450	71.000	.1789	.2180	.2070	.9244	.7787-02	.9007-02	5.735	43.20	583.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB34)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
633	.5017	7.900	39.93	-.3449-02	100.0	1252.	92.84	.1112-01	.4857	3732.	.3232-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
633	.1707-01	.5709-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
633	46.800	.90000	1054.0	.5049-01	.6126-01	.5688-01	.9360	.8619-03	.9711-03	.6135	4.892	539.8
633	46.800	.95000	1055.0	.4225-01	.5126-01	.4760-01	.9360	.7213-03	.8126-03	.5138	4.590	539.3
633	46.800	.97500	1056.0	.3090-01	.3748-01	.3748-01	.9000	.5276-03	.6399-03	.3763	3.003	538.4
633	46.800	1.0450	59.000	.1841-01	.2227-01	.2227-01	.9000	.3142-03	.3803-03	.2266	1.694	530.7
633	46.800	1.0600	60.000	.1588-01	.1922-01	.1922-01	.9000	.2711-03	.3280-03	.1956	1.415	530.3
633	93.600	.90000	1066.0	.5584-01	.6774-01	.6372-01	.9296	.9532-03	.1088-02	.6789	5.054	539.4
633	93.600	.95000	1067.0	.6502-01	.7869-01	.7460-01	.9269	.1110-02	.1274-02	.7900	6.081	539.9
633	93.600	.97500	1068.0	.6350-01	.7707-01	.7307-01	.9256	.1084-02	.1247-02	.7707	6.143	540.7
633	93.600	1.0150	69.000	.2562-01	.3102-01	.2952-01	.9241	.4373-03	.5040-03	.3140	2.557	533.6
633	93.600	1.0300	70.000	.2356-01	.2852-01	.2714-01	.9241	.4022-03	.4634-03	.2894	2.276	532.1
633	93.600	1.0450	71.000	.2294-01	.2776-01	.2642-01	.9241	.3916-03	.4511-03	.2822	2.182	531.2
633	93.600	1.0600	72.000	.2025-01	.2450-01	.2332-01	.9241	.3457-03	.3981-03	.2493	2.071	530.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R40834)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -12.50 SPD8RK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
659	1.001	7.940	39.97	-4645-06	206.7	1270.	93.30	.2223-01	.9811	3760.	.6431-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
659	.2432-01	.4053-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R* TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
659	46.800	.90000	1054.0	.5288-01	.6413-01	.5955-01	.9361	.1286-02	.1449-02	.9312	7.403	545.7
659	46.800	.95000	1055.0	.4256-01	.5160-01	.4793-01	.9361	.1035-02	.1166-02	.7504	6.684	544.9
659	46.800	.97500	1056.0	.2854-01	.3457-01	.3457-01	.9000	.6943-03	.8409-03	.5054	4.026	541.7
659	46.800	1.0450	59.000	.1930-01	.2328-01	.2328-01	.9000	.4694-03	.5662-03	.3487	2.612	526.8
659	46.800	1.0600	60.000	.1729-01	.2085-01	.2085-01	.9000	.4205-03	.5071-03	.3127	2.268	526.1
659	93.600	.90000	1066.0	.5324-01	.6457-01	.6071-01	.9296	.1295-02	.1477-02	.9399	6.980	543.9
659	93.600	.95000	1067.0	.6851-01	.8303-01	.7853-01	.9270	.1666-02	.1910-02	1.210	9.294	543.7
659	93.600	.97500	1068.0	.6626-01	.8031-01	.7615-01	.9257	.1612-02	.1852-02	1.170	9.307	543.9
659	93.600	1.0150	69.000	.2524-01	.3047-01	.2901-01	.9242	.6139-03	.7057-03	.4542	3.707	529.8
659	93.600	1.0450	71.000	.2327-01	.2807-01	.2673-01	.9242	.5660-03	.6503-03	.4201	3.255	527.4
659	93.600	1.0600	72.000	.2099-01	.2531-01	.2411-01	.9242	.5105-03	.5864-03	.3792	3.157	526.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB34)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
647	1.985	7.980	40.00	.3471-02	436.3	1312.	95.49	.4542-01	2.025	3823.	.1284-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO. REF (R) =.0175
647	.3514-01	.2878-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
647	46.800	.90000	1054.0	.9787-01	.1190	.1104	.9362	.3439-02	.3878-02	2.541	19.93	572.8
647	46.800	.95000	1055.0	.9345-01	.1136	.1054	.9362	.3284-02	.3704-02	2.425	21.29	573.3
647	46.800	.97500	1056.0	.7704-01	.9359-01	.9359-01	.9000	.2707-02	.3289-02	2.008	15.77	569.8
647	46.800	1.0450	59.000	.3294-01	.3968-01	.3968-01	.9000	.1157-02	.1394-02	.8935	6.650	539.7
647	46.800	1.0600	60.000	.3004-01	.3617-01	.3617-01	.9000	.1056-02	.1271-02	.8168	5.888	537.9
647	93.600	.90000	1066.0	.9369-01	.1138	.1070	.9297	.3292-02	.3759-02	2.445	17.93	569.0
647	93.600	.95000	1067.0	.1136	.1381	.1305	.9271	.3993-02	.4584-02	2.959	22.43	570.5
647	93.600	.97500	1068.0	.1167	.1419	.1345	.9258	.4102-02	.4725-02	3.031	23.77	572.8
647	93.600	1.0150	69.000	.4062-01	.4900-01	.4666-01	.9243	.1427-02	.1640-02	1.095	8.874	544.2
647	93.600	1.0300	70.000	.3294-01	.3969-01	.3781-01	.9243	.1157-02	.1329-02	.8918	6.982	541.1
647	93.600	1.0450	71.000	.3194-01	.3848-01	.3666-01	.9243	.1122-02	.1288-02	.8669	6.675	539.4
647	93.600	1.0600	72.000	.2832-01	.3411-01	.3250-01	.9243	.9952-03	.1142-02	.7696	6.368	538.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB34)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 ⁶	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT ³	MU LB-SEC /FT ²
649	3.013	7.990	40.03	.6967-02	670.5	1320.	95.85	.6924-01	3.094	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
649	.4349-01	.2337-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
649	46.800	.90000	1054.0	.1985	.2432	.2248	.9363	.8632-02	.9777-02	6.196	47.90	601.9
649	46.800	.95000	1055.0	.1905	.2338	.2160	.9363	.8286-02	.9393-02	5.914	51.11	605.9
649	46.800	.97500	1056.0	.1770	.2165	.2165	.9000	.7696-02	.9415-02	5.563	43.11	596.8
649	46.800	1.0450	59.000	.5560-01	.6709-01	.6709-01	.9000	.2418-02	.2918-02	1.863	13.80	549.1
649	46.800	1.0600	60.000	.5220-01	.6296-01	.6296-01	.9000	.2270-02	.2738-02	1.753	12.58	547.5
649	93.600	.90000	1066.0	.2044	.2501	.2345	.9298	.8891-02	.1020-01	6.428	46.50	596.7
649	93.600	.95000	1067.0	.2129	.2607	.2457	.9272	.9260-02	.1069-01	6.666	49.81	599.7
649	93.600	.97500	1068.0	.2210	.2711	.2561	.9259	.9613-02	.1114-01	6.869	53.01	605.2
649	93.600	1.0150	69.000	.6393-01	.7724-01	.7351-01	.9243	.2780-02	.3197-02	2.129	17.17	553.8
649	93.600	1.0300	70.000	.5203-01	.6277-01	.5976-01	.9243	.2262-02	.2599-02	1.745	13.61	548.5
649	93.600	1.0450	71.000	.4871-01	.5875-01	.5594-01	.9243	.2118-02	.2433-02	1.635	12.54	547.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
635	X10 6 .4992	7.900	39.96	-.3458-02	99.17	1249.	92.62	.1102-01	.4815	3727.	.3212-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
635	.1699-01	.5725-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
635	46.800	.90000	1054.0	.5630-01	.6831-01	.6343-01	.9361	.9566-03	.1078-02	.6795	5.422	538.4
635	46.800	.95000	1055.0	.4524-01	.5487-01	.5095-01	.9361	.7687-03	.8658-03	.5469	4.890	537.2
635	46.800	.97500	1056.0	.3066-01	.3717-01	.3717-01	.9000	.5210-03	.6315-03	.3717	2.970	535.3
635	46.800	1.0450	59.000	.2751-01	.3331-01	.3331-01	.9000	.4675-03	.5659-03	.3356	2.509	530.7
635	46.800	1.0600	60.000	.2517-01	.3047-01	.3047-01	.9000	.4277-03	.5177-03	.3071	2.222	530.6
635	93.600	.90000	1066.0	.5512-01	.6686-01	.6290-01	.9296	.9365-03	.1069-02	.6658	4.960	537.8
635	93.600	.95000	1067.0	.6677-01	.8097-01	.7657-01	.9270	.1134-02	.1301-02	.8074	6.225	537.0
635	93.600	.97500	1068.0	.6389-01	.7742-01	.7342-01	.9257	.1086-02	.1248-02	.7757	6.203	534.1
635	93.600	1.0150	69.000	.3397-01	.4110-01	.3912-01	.9242	.5772-03	.6646-03	.4155	3.392	528.8
635	93.600	1.0300	70.000	.3386-01	.4097-01	.3899-01	.9242	.5753-03	.6625-03	.4136	3.257	529.7
635	93.600	1.0450	71.000	.3473-01	.4203-01	.4000-01	.9242	.5500-03	.6796-03	.4239	3.279	530.2
635	93.600	1.0600	72.000	.3132-01	.3792-01	.3608-01	.9242	.5322-03	.6131-03	.3819	3.172	531.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BOFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
657	.9860	7.940	39.99	-.4654-06	202.4	1265.	92.93	.2177-01	.9606	3752.	.6322-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
657	.2405-01	.4086-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
657	46.800	.90000	1054.0	.4995-01	.6063-01	.5628-01	.9362	.1201-02	.1354-02	.8627	6.856	546.6
657	46.800	.95000	1055.0	.4092-01	.4967-01	.4611-01	.9362	.9843-03	.1109-02	.7064	6.286	546.9
657	46.800	.97500	1056.0	.2847-01	.3453-01	.3453-01	.9000	.6848-03	.8305-03	.4935	3.927	544.0
657	46.800	1.0450	59.000	.2687-01	.3252-01	.3252-01	.9000	.6464-03	.7823-03	.4706	3.508	536.6
657	46.800	1.0600	60.000	.2476-01	.2996-01	.2996-01	.9000	.5954-03	.7205-03	.4339	3.131	536.0
657	93.600	.90000	1066.0	.5381-01	.6529-01	.6140-01	.9297	.1294-02	.1477-02	.9310	6.909	545.3
657	93.600	.95000	1067.0	.6822-01	.8282-01	.7828-01	.9271	.1641-02	.1883-02	1.178	9.035	546.9
657	93.600	.97500	1068.0	.6554-01	.7958-01	.7542-01	.9258	.1576-02	.1814-02	1.130	8.971	548.0
657	93.600	1.0150	69.000	.3517-01	.4259-01	.4051-01	.9243	.8459-03	.9744-03	.6141	4.989	538.6
657	93.600	1.0300	70.000	.3400-01	.4115-01	.3915-01	.9243	.8177-03	.9417-03	.5948	4.665	537.3
657	93.600	1.0450	71.000	.3502-01	.4239-01	.4033-01	.9243	.8423-03	.9700-03	.6125	4.721	537.5
657	93.600	1.0600	72.000	.3213-01	.3889-01	.3700-01	.9243	.7728-03	.8900-03	.5624	4.657	537.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
645	1.997	7.980	40.01	-4.664-06	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
645	.3502-01	.2873-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
645	46.800	.90000	1054.0	.1010	.1231	.1141	.9362	.3538-02	.3994-02	2.569	20.11	576.4
645	46.800	.95000	1055.0	.9486-01	.1157	.1071	.9362	.3322-02	.3752-02	2.406	21.07	578.5
645	46.800	.97500	1056.0	.7905-01	.9625-01	.9625-01	.9000	.2768-02	.3371-02	2.017	15.81	573.9
645	46.800	1.0450	59.000	.6544-01	.7928-01	.7928-01	.9000	.2292-02	.2777-02	1.709	12.61	556.7
645	46.800	1.0600	60.000	.6282-01	.7609-01	.7609-01	.9000	.2200-02	.2665-02	1.644	11.75	555.4
645	93.600	.90000	1066.0	.9242-01	.1125	.1057	.9297	.3237-02	.3701-02	2.359	17.26	573.8
645	93.600	.95000	1067.0	.1142	.1392	.1314	.9271	.4001-02	.4602-02	2.907	21.98	576.1
645	93.600	.97500	1068.0	.1181	.1440	.1363	.9258	.4136-02	.4773-02	2.993	23.40	579.0
645	93.600	1.0150	69.000	.6389-01	.7747-01	.7366-01	.9243	.2237-02	.2580-02	1.662	13.36	559.6
645	93.600	1.0300	70.000	.6258-01	.7584-01	.7212-01	.9243	.2192-02	.2526-02	1.633	12.68	557.4
645	93.600	1.0450	71.000	.6619-01	.8022-01	.7629-01	.9243	.2318-02	.2672-02	1.726	13.16	558.2
645	93.600	1.0600	72.000	.6057-01	.7342-01	.6982-01	.9243	.2121-02	.2445-02	1.579	12.94	558.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
655	2.999	7.990	40.01	.6952-02	675.0	1330.	96.58	.6970-01	3.115	3849.	.1948-02	.7772-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
655	.4369-01	.2340-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
655	46.800	.90000	1054.0	.2057	.2520	.2330	.9362	.8988-02	.1018-01	6.502	50.16	606.2
655	46.800	.95000	1055.0	.1943	.2383	.2202	.9362	.8489-02	.9622-02	6.114	52.74	609.4
655	46.800	.97500	1056.0	.1743	.2132	.2132	.9000	.7616-02	.9315-02	5.551	42.93	600.8
655	46.800	1.0450	59.000	.1207	.1464	.1464	.9000	.5272-02	.6395-02	3.993	29.23	572.3
655	46.800	1.0600	60.000	.1161	.1407	.1407	.9000	.5073-02	.6146-02	3.864	27.43	568.1
655	93.600	.90000	1066.0	.2027	.2479	.2325	.9297	.8856-02	.1016-01	6.464	46.69	599.8
655	93.600	.95000	1067.0	.2122	.2596	.2448	.9271	.9270-02	.1069-01	6.749	50.39	601.6
655	93.600	.97500	1068.0	.2200	.2696	.2547	.9258	.9610-02	.1113-01	6.941	53.52	607.3
655	93.600	1.0150	69.000	.1152	.1400	.1330	.9243	.5034-02	.5811-02	3.789	30.20	576.9
655	93.600	1.0300	70.000	.1091	.1323	.1258	.9243	.4767-02	.5496-02	3.616	27.89	571.0
655	93.600	1.0450	71.000	.1180	.1432	.1361	.9243	.5157-02	.5948-02	3.906	29.58	572.4
655	93.600	1.0600	72.000	.1056	.1281	.1218	.9243	.4615-02	.5321-02	3.500	28.49	571.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
637	.5033	7.900	39.93	-.6897-02	99.99	1249.	92.62	.1111-01	.4855	3727.	.3238-03	.7453-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
637	.1706-01	.5702-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
637	46.800	.90000	1054.0	.4790-01	.5814-01	.5398-01	.9360	.8172-03	.9210-03	.5793	4.619	539.9
637	46.800	.95000	1055.0	.4103-01	.4980-01	.4624-01	.9360	.7000-03	.7889-03	.4960	4.429	540.1
637	46.800	.97500	1056.0	.2996-01	.3635-01	.3635-01	.9000	.5112-03	.6202-03	.3632	2.898	538.2
637	46.800	1.0300	58.000	.3267-01	.3960-01	.3960-01	.9000	.5574-03	.6757-03	.3978	2.967	535.1
637	46.800	1.0450	59.000	.3261-01	.3953-01	.3953-01	.9000	.5564-03	.6745-03	.3967	2.958	535.7
637	46.800	1.0600	60.000	.3084-01	.3739-01	.3739-01	.9000	.5262-03	.6379-03	.3752	2.708	535.6
637	93.600	.90000	1066.0	.5497-01	.6671-01	.6275-01	.9296	.9378-03	.1071-02	.6655	4.954	539.1
637	93.600	.95000	1067.0	.6460-01	.7843-01	.7415-01	.9269	.1102-02	.1265-02	.7808	6.010	540.3
637	93.600	.97500	1068.0	.6248-01	.7586-01	.7192-01	.9256	.1066-02	.1227-02	.7547	6.015	540.7
637	93.600	1.0150	69.000	.3582-01	.4343-01	.4132-01	.9241	.6111-03	.7049-03	.4353	3.541	536.3
637	93.600	1.0300	70.000	.3956-01	.4797-01	.4563-01	.9241	.6749-03	.7784-03	.4808	3.773	536.3
637	93.600	1.0450	71.000	.4225-01	.5123-01	.4873-01	.9241	.7208-03	.8314-03	.5131	3.956	536.8
637	93.600	1.0600	72.000	.5841-01	.7029-01	.6701-01	.9241	.9965-03	.1143-02	.7361	6.180	510.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
663	1.016	7.940	39.97	-4.643-08	207.3	1260.	92.56	.2230-01	.9840	3745.	.6501-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
663	.2433-01	.4028-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
663	46.800	.90000	1054.0	.5078-01	.6165-01	.5723-01	.9361	.1235-02	.1392-02	.8826	7.018	545.2
663	46.800	.95000	1055.0	.4236-01	.5141-01	.4772-01	.9361	.1030-02	.1161-02	.7373	6.570	544.1
663	46.800	.97500	1056.0	.2907-01	.3526-01	.3526-01	.9000	.7072-03	.8578-03	.5076	4.043	542.0
663	46.800	1.0300	58.000	.3527-01	.4271-01	.4271-01	.9000	.8579-03	.1039-02	.6198	4.618	537.2
663	46.800	1.0450	59.000	.3578-01	.4334-01	.4334-01	.9000	.8703-03	.1054-02	.6285	4.683	537.5
663	46.800	1.0600	60.000	.3446-01	.4173-01	.4173-01	.9000	.8383-03	.1015-02	.6063	4.374	536.4
663	93.600	.90000	1066.0	.5536-01	.6717-01	.6317-01	.9296	.1347-02	.1537-02	.9648	7.167	543.2
663	93.600	.95000	1067.0	.6964-01	.8450-01	.7989-01	.9270	.1694-02	.1943-02	1.214	9.331	543.1
663	93.600	.97500	1068.0	.6718-01	.8153-01	.7728-01	.9257	.1634-02	.1880-02	1.170	9.306	544.0
663	93.600	1.0150	69.000	.3601-01	.4364-01	.4151-01	.9242	.8759-03	.1010-02	.6307	5.120	539.7
663	93.600	1.0300	70.000	.3302-03	.3971-03	.3785-03	.9242	.8031-05	.9209-05	.5998-02	.4764-01	512.8
663	93.600	1.0450	71.000	.4408-01	.5341-01	.5081-01	.9242	.1072-02	.1236-02	.7733	5.957	538.6
663	93.600	1.0600	72.000	.3963-01	.4799-01	.4566-01	.9242	.9639-03	.1111-02	.6963	5.765	537.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
643	2.006	7.980	39.98	-1.040-01	434.5	1299.	94.54	.4523-01	2.016	3804.	.1291-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
643	.3501-01	.2867-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
643	46.800	.90000	1054.0	.9193-01	.1118	.1037	.9362	.3218-02	.3630-02	2.351	18.48	568.2
643	46.800	.95000	1055.0	.9026-01	.1099	.1019	.9362	.3160-02	.3566-02	2.299	20.21	571.2
643	46.800	.97500	1056.0	.7581-01	.9217-01	.9217-01	.9000	.2654-02	.3226-02	1.942	15.27	567.0
643	46.800	1.0300	58.000	.9241-01	.1122	.1122	.9000	.3235-02	.3929-02	2.379	17.50	563.1
643	46.800	1.0450	59.000	.9948-01	.1209	.1209	.9000	.3482-02	.4231-02	2.557	18.80	564.4
643	46.800	1.0600	60.000	.9246-01	.1123	.1123	.9000	.3237-02	.3930-02	2.381	16.95	563.1
643	93.600	.90000	1066.0	.9213-01	.1120	.1053	.9297	.3225-02	.3685-02	2.362	17.34	566.4
643	93.600	.95000	1067.0	.1129	.1374	.1298	.9271	.3952-02	.4542-02	2.881	21.85	569.6
643	93.600	.97500	1068.0	.1163	.1416	.1341	.9258	.4070-02	.4694-02	2.950	23.12	573.9
643	93.600	1.0150	69.000	.8636-01	.1050	.9980-01	.9242	.3023-02	.3494-02	2.208	17.67	568.2
643	93.600	1.0300	70.000	.9554-01	.1161	.1103	.9242	.3344-02	.3862-02	2.454	18.98	565.0
643	93.600	1.0450	71.000	.1017	.1236	.1175	.9242	.3560-02	.4113-02	2.609	19.82	566.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
653	X10 6 2.998	7.990	40.02	.6962-02	672.4	1327.	96.36	.6944-01	3.103	3845.	.1945-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
653	.4359-01	.2341-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
653	46.800	.90000	1054.0	.2065	.2531	.2340	.9363	.9003-02	.1020-01	6.489	50.07	605.8
653	46.800	.95000	1055.0	.1934	.2373	.2132	.9363	.8431-02	.9557-02	6.052	52.22	608.9
653	46.800	.97500	1056.0	.1744	.2134	.2134	.9000	.7602-02	.9301-02	5.520	42.71	600.5
653	46.800	1.0300	58.000	.1803	.2194	.2194	.9000	.7858-02	.9566-02	5.841	42.53	583.3
653	46.800	1.0450	59.000	.1750	.2133	.2133	.9000	.7628-02	.9297-02	5.637	40.96	587.7
653	46.800	1.0600	60.000	.1590	.1936	.1936	.9000	.6930-02	.8438-02	5.145	36.24	584.2
653	93.600	.90000	1066.0	.1998	.2443	.2291	.9298	.8708-02	.9988-02	6.335	45.77	599.2
653	93.600	.95000	1067.0	.2101	.2571	.2424	.9272	.9157-02	.1056-01	6.643	49.60	601.2
653	93.600	.97500	1068.0	.2176	.2668	.2520	.9258	.9485-02	.1099-01	6.826	52.63	607.0
653	93.600	1.0150	69.000	.1753	.2141	.2032	.9243	.7641-02	.8857-02	5.587	44.12	595.4
653	93.600	1.0300	70.000	.1720	.2098	.1991	.9243	.7499-02	.8681-02	5.529	42.25	589.4
653	93.600	1.0450	71.000	.1799	.2195	.2083	.9243	.7844-02	.9081-02	5.777	43.37	590.1
653	93.600	1.0600	72.000	.1546	.1885	.1789	.9243	.6741-02	.7800-02	4.984	40.24	587.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
639	.5035	7.900	39.95	-.1383-01	99.79	1247.	92.47	.1109-01	.4845	3724.	.3237-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
639	.1704-01	.5702-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
639	46.800	.90000	1054.0	.4822-01	.5847-01	.5430-01	.9361	.8216-03	.9253-03	.5839	4.665	535.9
639	46.800	.95000	1055.0	.4326-01	.5245-01	.4871-01	.9361	.7371-03	.8300-03	.5244	4.694	535.2
639	46.800	.97500	1056.0	.2972-01	.3603-01	.3603-01	.9000	.5064-03	.6139-03	.3605	2.882	534.7
639	46.800	1.0300	58.000	.3822-01	.4633-01	.4633-01	.9000	.6512-03	.7894-03	.4636	3.459	534.7
639	46.800	1.0450	59.000	.4341-01	.5262-01	.5262-01	.9000	.7396-03	.8967-03	.5265	3.928	534.9
639	46.800	1.0600	60.000	.4474-01	.5423-01	.5423-01	.9000	.7623-03	.9240-03	.5429	3.921	534.4
639	93.600	.90000	1066.0	.5392-01	.6536-01	.6150-01	.9296	.9187-03	.1048-02	.6538	4.878	535.0
639	93.600	.95000	1067.0	.6588-01	.7988-01	.7555-01	.9270	.1123-02	.1287-02	.7984	6.161	535.4
639	93.600	.97500	1068.0	.6317-01	.7661-01	.7264-01	.9257	.1076-02	.1238-02	.7647	6.109	536.2
639	93.600	1.0150	69.000	.3285-01	.3984-01	.3789-01	.9242	.5598-03	.6457-03	.3979	3.237	535.9
639	93.600	1.0300	70.000	.4762-01	.5774-01	.5492-01	.9242	.8113-03	.9357-03	.5769	4.529	535.6
639	93.600	1.0450	71.000	.5521-01	.6694-01	.6367-01	.9242	.9407-03	.1085-02	.6690	5.162	535.4
639	93.600	1.0600	72.000	.7102-01	.8601-01	.8183-01	.9242	.1210-02	.1394-02	.8656	7.189	531.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
661	1.021	7.940	39.97	-.4644-06	206.8	1254.	92.12	.2224-01	.9816	3736.	.6517-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
661	.2428-01	.4021-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
661	46.800	.90000	1054.0	.5130-01	.6233-01	.5783-01	.9361	.1245-02	.1404-02	.8820	7.013	545.4
661	46.800	.95000	1055.0	.4302-01	.5226-01	.4850-01	.9361	.1044-02	.1177-02	.7405	6.597	544.7
661	46.800	.97500	1056.0	.2842-01	.3450-01	.3450-01	.9000	.6899-03	.8375-03	.4907	3.908	542.3
661	46.800	1.0300	58.000	.4114-01	.4995-01	.4995-01	.9000	.9987-03	.1213-02	.7096	5.272	543.1
661	46.800	1.0450	59.000	.4800-01	.5830-01	.5830-01	.9000	.1165-02	.1415-02	.8272	6.144	543.8
661	46.800	1.0600	60.000	.4915-01	.5967-01	.5967-01	.9000	.1193-02	.1449-02	.8484	6.102	542.6
661	46.800	1.0600	1066.0	.5347-01	.6494-01	.6105-01	.9296	.1298-02	.1482-02	.9214	6.843	543.8
661	93.600	.90000	1066.0	.5347-01	.6494-01	.6105-01	.9296	.1692-02	.1942-02	1.201	9.228	543.8
661	93.600	.95000	1067.0	.6970-01	.8465-01	.8001-01	.9270	.1610-02	.1854-02	1.141	9.077	544.9
661	93.600	.97500	1068.0	.6633-01	.8058-01	.7636-01	.9257	.7668-03	.8856-03	.5430	4.395	545.5
661	93.600	1.0150	69.000	.3158-01	.3838-01	.3648-01	.9242	.1404-02	.1621-02	.9937	7.627	545.7
661	93.600	1.0450	71.000	.5782-01	.7026-01	.6678-01	.9242	.1550-02	.1789-02	1.100	9.075	544.0
661	93.600	1.0600	72.000	.6384-01	.7753-01	.7371-01	.9242					

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
641	2.028	7.980	39.99	-.6938-02	435.7	1292.	94.03	.4536-01	2.022	3794.	.1302-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
641	.3502-01	.2854-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
641	46.800	.90000	1054.0	.9477-01	.1152	.1069	.9362	.3319-02	.3743-02	2.417	19.05	563.4
641	46.800	.95000	1055.0	.9281-01	.1129	.1047	.9362	.3250-02	.3667-02	2.359	20.79	566.0
641	46.800	.97500	1056.0	.7732-01	.9395-01	.9395-01	.9000	.2708-02	.3290-02	1.976	15.58	562.0
641	46.800	1.0300	58.000	.1411	.1717	.1717	.9000	.4942-02	.6012-02	3.587	26.34	566.0
641	46.800	1.0450	59.000	.1456	.1773	.1773	.9000	.5100-02	.6208-02	3.691	27.08	568.0
641	46.800	1.0600	60.000	.1440	.1751	.1751	.9000	.5043-02	.6132-02	3.665	26.07	564.8
641	93.600	.90000	1066.0	.9075-01	.1102	.1036	.9297	.3178-02	.3629-02	2.322	17.10	561.1
641	93.600	.95000	1067.0	.1148	.1396	.1319	.9271	.4021-02	.4619-02	2.927	22.26	563.7
641	93.600	.97500	1068.0	.1180	.1436	.1360	.9258	.4132-02	.4762-02	2.993	23.54	567.3
641	93.600	1.0150	69.000	.1288	.1570	.1491	.9243	.4511-02	.5222-02	3.241	25.87	573.3
641	93.600	1.0300	70.000	.1433	.1745	.1657	.9243	.5017-02	.5804-02	3.618	27.91	570.4
641	93.600	1.0450	71.000	.1546	.1884	.1789	.9243	.5416-02	.6267-02	3.903	29.58	571.0
641	93.600	1.0600	72.000	.1647	.2001	.1902	.9243	.5769-02	.6661-02	4.214	34.47	561.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
651	2.990	7.990	40.05	.3490-02	671.4	1328.	96.43	.6934-01	3.098	3846.	.1941-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
651	.4356-01	.2344-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
651	46.800	.90000	1054.0	.1990	.2436	.2253	.9363	.8670-02	.9814-02	6.288	48.60	602.3
651	46.800	.95000	1055.0	.1911	.2341	.2164	.9363	.8323-02	.9428-02	6.009	51.93	605.7
651	46.800	.97500	1056.0	.1742	.2129	.2129	.9000	.7588-02	.9274-02	5.540	42.92	597.5
651	46.800	1.0300	58.000	.2360	.2881	.2881	.9000	.1028-01	.1255-01	7.544	54.65	593.8
651	46.800	1.0450	59.000	.2304	.2818	.2818	.9000	.1004-01	.1228-01	7.309	52.79	599.5
651	46.800	1.0600	60.000	.2183	.2664	.2664	.9000	.9510-02	.1161-01	6.992	49.04	592.5
651	93.600	.90000	1066.0	.1997	.2440	.2289	.9298	.8700-02	.9970-02	6.364	46.05	596.2
651	93.600	.95000	1067.0	.2120	.2592	.2444	.9272	.9236-02	.1065-01	6.740	50.40	597.9
651	93.600	.97500	1068.0	.2194	.2687	.2539	.9259	.9559-02	.1106-01	6.919	53.44	603.8
651	93.600	1.0150	69.000	.2442	.2998	.2840	.9244	.1064-01	.1237-01	7.613	59.62	612.0
651	93.600	1.0300	70.000	.2474	.3029	.2872	.9244	.1078-01	.1251-01	7.811	59.29	602.9
651	93.600	1.0450	71.000	.2412	.2953	.2800	.9244	.1051-01	.1220-01	7.619	56.85	602.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB38)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
631	.5096	7.900	39.97	.1384-01	101.0	1247.	92.47	.1122-01	.4903	3724.	.3276-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
631	.1714-01	.5668-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
631	46.800	.90000	1054.0	.5186-01	.6287-01	.5839-01	.9361	.8890-03	.1001-02	.6330	5.061	534.6
631	46.800	.95000	1055.0	.4339-01	.5259-01	.4885-01	.9361	.7437-03	.8374-03	.5297	4.743	534.5
631	46.800	.97500	1056.0	.3033-01	.3676-01	.3676-01	.9000	.5199-03	.6301-03	.3706	2.964	533.9
631	46.800	1.0450	59.000	.1852-01	.2240-01	.2240-01	.9000	.3174-03	.3839-03	.2286	1.712	526.6
631	46.800	1.0600	60.000	.1602-01	.1938-01	.1938-01	.9000	.2747-03	.3322-03	.1978	1.435	526.4
631	93.600	.90000	1066.0	.5384-01	.6526-01	.6140-01	.9296	.9229-03	.1052-02	.6575	4.907	534.2
631	93.600	.95000	1067.0	.6193-01	.7507-01	.7100-01	.9270	.1062-02	.1217-02	.7558	5.834	534.7
631	93.600	.97500	1068.0	.5908-01	.7164-01	.6793-01	.9257	.1013-02	.1164-02	.7201	5.754	535.7
631	93.600	1.0150	69.000	.2474-01	.2995-01	.2850-01	.9242	.4241-03	.4885-03	.3040	2.480	529.9
631	93.600	1.0300	70.000	.2366-01	.2863-01	.2725-01	.9242	.4056-03	.4671-03	.2914	2.296	528.3
631	93.600	1.0450	71.000	.2373-01	.2871-01	.2732-01	.9242	.4068-03	.4683-03	.2926	2.267	527.4
631	93.600	1.0600	72.000	.2037-01	.2464-01	.2345-01	.9242	.3492-03	.4019-03	.2513	2.092	526.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB38)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
605	1.013	7.940	39.97	.1385-01	206.2	1258.	92.42	.2218-01	.9787	3742.	.6477-03	.7437-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
605	.2425-01	.4035-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
605	46.800	.90000	1054.0	.5356-01	.6503-01	.6036-01	.9361	.1299-02	.1464-02	.9270	7.375	544.2
605	46.800	.95000	1055.0	.4348-01	.5277-01	.4899-01	.9361	.1055-02	.1188-02	.7532	6.715	543.4
605	46.800	.97500	1056.0	.2995-01	.3631-01	.3631-01	.9000	.7264-03	.8807-03	.5213	4.157	540.0
605	46.800	1.0450	59.000	.2056-01	.2483-01	.2483-01	.9000	.4988-03	.6023-03	.3651	2.736	525.7
605	46.800	1.0600	60.000	.1807-01	.2182-01	.2182-01	.9000	.4384-03	.5292-03	.3212	2.331	524.9
605	93.600	.90000	1066.0	.5518-01	.6696-01	.6297-01	.9296	.1338-02	.1527-02	.9570	7.112	542.6
605	93.600	.95000	1067.0	.6541-01	.7936-01	.7503-01	.9270	.1586-02	.1820-02	1.135	8.725	542.3
605	93.600	.97500	1068.0	.5991-01	.7272-01	.6893-01	.9257	.1453-02	.1672-02	1.037	8.256	543.7
605	93.600	1.0150	69.000	.2807-01	.3393-01	.3230-01	.9242	.6808-03	.7834-03	.4957	4.045	529.6
605	93.600	1.0300	70.000	.2529-01	.3056-01	.2909-01	.9242	.6135-03	.7056-03	.4481	3.532	527.3
605	93.600	1.0450	71.000	.2465-01	.2977-01	.2834-01	.9242	.5978-03	.6874-03	.4371	3.388	526.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4U838)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
603	2.009	7.980	39.99	.1734-01	434.1	1297.	94.40	.4519-01	2.014	3801.	.1292-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
603	.3498-01	.2866-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
603	46.800	.90000	1054.0	.1004	.1221	.1132	.9362	.3512-02	.3961-02	2.564	20.17	566.8
603	46.800	.95000	1055.0	.9554-01	.1162	.1078	.9362	.3342-02	.3770-02	2.435	21.44	568.1
603	46.800	.97500	1056.0	.7909-01	.9612-01	.9612-01	.9000	.2767-02	.3362-02	2.025	15.95	564.7
603	46.800	1.0450	59.000	.3823-01	.4610-01	.4610-01	.9000	.1337-02	.1613-02	1.016	7.573	536.9
603	46.800	1.0600	60.000	.3520-01	.4242-01	.4242-01	.9000	.1231-02	.1484-02	.9377	6.769	535.1
603	93.600	.90000	1066.0	.9894-01	.1202	.1130	.9297	.3461-02	.3953-02	2.538	18.67	563.3
603	93.600	.95000	1067.0	.1158	.1408	.1330	.9271	.4051-02	.4653-02	2.962	22.51	565.5
603	93.600	.97500	1068.0	.1191	.1450	.1373	.9258	.4167-02	.4802-02	3.034	23.84	568.7
603	93.600	1.0150	69.000	.4748-01	.5731-01	.5457-01	.9243	.1661-02	.1909-02	1.255	10.18	541.2
603	93.600	1.0300	70.000	.3892-01	.4695-01	.4471-01	.9243	.1361-02	.1564-02	1.033	8.098	538.1
603	93.600	1.0450	71.000	.3818-01	.4604-01	.4385-01	.9243	.1336-02	.1534-02	1.015	7.825	536.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 398

OH84B 60-0 FUSELAGE

(R4UB38)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
581	X10 6 2.994	7.990	40.05	.1047-01	671.7	1327.	96.36	.6937-01	3.100	3845.	.1943-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
581	.4357-01	.2342-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
581	46.800	.90000	1054.0	.1992	.2443	.2257	.9363	.8678-02	.9835-02	6.238	48.08	607.9
581	46.800	.95000	1055.0	.1905	.2339	.2160	.9363	.8301-02	.9413-02	5.941	51.20	611.0
581	46.800	.97500	1056.0	.1740	.2131	.2131	.9000	.7581-02	.9283-02	5.485	42.38	603.2
581	46.800	1.0450	59.000	.5986-01	.7226-01	.7226-01	.9000	.2608-02	.3148-02	2.016	14.90	553.6
581	46.800	1.0600	60.000	.5541-01	.6684-01	.6684-01	.9000	.2414-02	.2912-02	1.873	13.41	550.9
581	93.600	.90000	1066.0	.1981	.2425	.2273	.9298	.8630-02	.9903-02	6.247	45.06	602.7
581	93.600	.95000	1067.0	.2143	.2626	.2475	.9272	.9338-02	.1078-01	6.736	50.19	605.3
581	93.600	.97500	1068.0	.2231	.2739	.2586	.9259	.9719-02	.1127-01	6.953	53.50	611.3
581	93.600	1.0150	69.000	.6546-01	.7915-01	.7531-01	.9244	.2852-02	.3281-02	2.187	17.58	559.8
581	93.600	1.0300	70.000	.5398-01	.6516-01	.6203-01	.9244	.2352-02	.2702-02	1.819	14.15	553.2
581	93.600	1.0450	71.000	.5178-01	.6247-01	.5947-01	.9244	.2256-02	.2591-02	1.749	13.38	551.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 389

OH84B 60-0 FUSELAGE

(R4UB39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
621	.4994	7.900	39.93	.1380-01	97.55	1235.	91.58	.1084-01	.4736	3706.	.3195-03	.7369-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
621	.1682-01	.5733-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
621	46.800	.90000	1054.0	.5261-01	.6386-01	.5929-01	.9361	.8849-03	.9972-03	.6203	4.961	533.7
621	46.800	.95000	1055.0	.4179-01	.5073-01	.4710-01	.9361	.7028-03	.7921-03	.4924	4.410	534.1
621	46.800	.97500	1056.0	.2968-01	.3600-01	.3600-01	.9000	.4991-03	.6055-03	.3506	2.807	532.1
621	46.800	1.0450	59.000	.2558-01	.3099-01	.3099-01	.9000	.4302-03	.5211-03	.3045	2.281	526.9
621	46.800	1.0600	60.000	.2260-01	.2738-01	.2738-01	.9000	.3801-03	.4605-03	.2689	1.949	527.4
621	93.600	.90000	1066.0	.5516-01	.6694-01	.6297-01	.9296	.9278-03	.1059-02	.6509	4.861	533.1
621	93.600	.95000	1067.0	.6150-01	.7467-01	.7060-01	.9270	.1034-02	.1187-02	.7241	5.589	534.6
621	93.600	.97500	1068.0	.5819-01	.7066-01	.6697-01	.9257	.9786-03	.1126-02	.6847	5.473	535.0
621	93.600	1.0150	69.000	.3219-01	.3902-01	.3712-01	.9241	.5415-03	.6243-03	.3823	3.121	528.7
621	93.600	1.0300	70.000	.3262-01	.3953-01	.3761-01	.9241	.5487-03	.6325-03	.3877	3.055	528.1
621	93.600	1.0450	71.000	.3319-01	.4022-01	.3826-01	.9241	.5532-03	.6436-03	.3944	3.054	528.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 390

OH84B 60-0 FUSELAGE

(R4UB39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
615	1.002	7.940	39.97	.1384-01	204.7	1261.	92.64	.2202-01	.9716	3746.	.6415-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
615	.2418-01	.4055-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
615	46.800	.90000	1054.0	.5269-01	.6392-01	.5935-01	.9361	.1274-02	.1435-02	.9145	7.281	542.7
615	46.800	.95000	1055.0	.4349-01	.5275-01	.4898-01	.9361	.1051-02	.1184-02	.7555	6.739	542.1
615	46.800	.97500	1056.0	.2913-01	.3530-01	.3530-01	.9000	.7042-03	.8535-03	.5073	4.044	540.2
615	46.800	1.0450	59.000	.2744-01	.3317-01	.3317-01	.9000	.6633-03	.8019-03	.4839	3.617	531.2
615	46.800	1.0600	60.000	.2494-01	.3014-01	.3014-01	.9000	.6029-03	.7286-03	.4404	3.187	530.2
615	93.600	.90000	1066.0	.5405-01	.6554-01	.6166-01	.9296	.1307-02	.1491-02	.9398	6.988	541.5
615	93.600	.95000	1067.0	.6667-01	.8083-01	.7644-01	.9270	.1612-02	.1848-02	1.160	8.924	541.1
615	93.600	.97500	1068.0	.5997-01	.7276-01	.6897-01	.9257	.1450-02	.1667-02	1.040	8.282	543.1
615	93.600	1.0150	69.000	.3529-01	.4270-01	.4064-01	.9242	.8531-03	.9824-03	.6193	5.041	534.7
615	93.600	1.0300	70.000	.3433-01	.4152-01	.3952-01	.9242	.8299-03	.9553-03	.6042	4.751	532.6
615	93.600	1.0450	71.000	.3520-01	.4256-01	.4051-01	.9242	.8510-03	.9794-03	.6201	4.793	531.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 391

OH84B 60-0 FUSELAGE

(R4UB39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
593	2.004	7.980	40.00	.1389-01	436.0	1303.	94.84	.4539-01	2.023	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
593	.3509-01	.2867-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
593	46.800	.90000	1054.0	.9769-01	.1188	.1102	.9362	.3427-02	.3866-02	2.511	19.72	570.0
593	46.800	.95000	1055.0	.9140-01	.1112	.1031	.9362	.3207-02	.3818-02	2.343	20.59	571.9
593	46.800	.97500	1056.0	.7318-01	.8895-01	.8895-01	.9000	.2568-02	.3121-02	1.886	14.83	568.1
593	46.800	1.0450	59.000	.6375-01	.7712-01	.7712-01	.9000	.2237-02	.2706-02	1.681	12.44	551.0
593	46.800	1.0600	60.000	.6166-01	.7454-01	.7454-01	.9000	.2163-02	.2615-02	1.631	11.69	548.8
593	93.600	.90000	1066.0	.9112-01	.1107	.1041	.9297	.3197-02	.3652-02	2.350	17.24	567.7
593	93.600	.95000	1067.0	.1115	.1355	.1280	.9271	.3911-02	.4493-02	2.867	21.74	569.6
593	93.600	.97500	1068.0	.1138	.1386	.1313	.9258	.3994-02	.4605-02	2.911	22.82	573.8
593	93.600	1.0150	69.000	.6135-01	.7429-01	.7067-01	.9243	.2152-02	.2480-02	1.609	12.96	555.1
593	93.600	1.0300	70.000	.6107-01	.7388-01	.7030-01	.9243	.2142-02	.2466-02	1.609	12.53	551.6
593	93.600	1.0450	71.000	.6449-01	.7802-01	.7424-01	.9243	.2263-02	.2405-02	1.700	13.01	551.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 392

OH84B 60-0 FUSELAGE

(R4UB39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
579	2.997	7.990	40.02	.1044-01	670.8	1325.	96.21	.6927-01	3.096	3842.	.1943-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
579	.4353-01	.2342-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
579	46.800	.90000	1054.0	.1951	.2396	.2213	.9362	.8490-02	.9630-02	6.054	46.58	611.5
579	46.800	.95000	1055.0	.1880	.2311	.2134	.9362	.8181-02	.9287-02	5.804	49.93	615.2
579	46.800	.97500	1056.0	.1731	.2123	.2123	.9000	.7536-02	.9240-02	5.411	41.73	606.6
579	46.800	1.0300	58.000	.1295	.1575	.1575	.9000	.5635-02	.6854-02	4.195	30.59	580.2
579	46.800	1.0450	59.000	.1234	.1501	.1501	.9000	.5372-02	.6535-02	3.998	29.15	580.4
579	46.800	1.0600	60.000	.1162	.1412	.1412	.9000	.5057-02	.6144-02	3.786	26.78	576.0
579	93.600	.90000	1066.0	.1978	.2426	.2273	.9298	.8611-02	.9892-02	6.188	44.56	606.1
579	93.600	.95000	1067.0	.2112	.2592	.2442	.9271	.9195-02	.1063-01	6.578	48.92	609.2
579	93.600	.97500	1068.0	.2231	.2743	.2589	.9258	.9709-02	.1127-01	6.882	52.84	615.9
579	93.600	1.0150	69.000	.1167	.1421	.1349	.9243	.5077-02	.5873-02	3.758	29.83	584.5
579	93.600	1.0300	70.000	.1140	.1387	.1318	.9243	.4963-02	.5736-02	3.693	28.35	580.5
579	93.600	1.0450	71.000	.1218	.1483	.1408	.9243	.5303-02	.6130-02	3.941	29.71	581.5

DATE 23 FEB 80

OM84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 393

OM84B 60-0 FUSELAGE

(R4UB40)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
623	.4983	7.900	39.97	.1384-01	99.83	1256.	93.14	.1109-01	.4847	3737.	.3215-03	.7495-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
623	.1706-01	.5726-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
623	46.800	.90000	1054.0	.4652-01	.5632-01	.5233-01	.9361	.7938-03	.8930-03	.5732	4.584	533.7
623	46.800	.95000	1055.0	.4148-01	.5021-01	.4666-01	.9361	.7078-03	.7962-03	.5111	4.579	533.5
623	46.800	.97500	1056.0	.2968-01	.3591-01	.3591-01	.9000	.5064-03	.6128-03	.3664	2.932	532.2
623	46.800	1.0450	59.000	.3183-01	.3850-01	.3850-01	.9000	.5431-03	.6569-03	.3938	2.944	530.7
623	46.800	1.0600	60.000	.2993-01	.3620-01	.3620-01	.9000	.5108-03	.6178-03	.3703	2.679	530.7
623	93.600	.90000	1066.0	.5451-01	.6598-01	.6211-01	.9296	.9302-03	.1060-02	.6720	5.017	533.3
623	93.600	.95000	1067.0	.6143-01	.7437-01	.7037-01	.9270	.1048-02	.1201-02	.7564	5.841	534.1
623	93.600	.97500	1068.0	.5862-01	.7099-01	.6733-01	.9257	.1000-02	.1149-02	.7209	5.762	535.0
623	93.600	1.0150	69.000	.3514-01	.4252-01	.4046-01	.9242	.5995-03	.6904-03	.4336	3.533	532.5
623	93.600	1.0300	70.000	.3973-01	.4808-01	.4575-01	.9242	.6780-03	.7807-03	.4905	3.857	532.2
623	93.600	1.0450	71.000	.4375-01	.5293-01	.5037-01	.9242	.7465-03	.8595-03	.5404	4.178	531.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 394

OH84B 60-0 FUSELAGE

(R4UB40)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
613	1.004	7.940	39.97	.1731-01	204.8	1260.	92.56	.2203-01	.9721	3745.	.6423-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
613	.2418-01	.4052-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
613	46.800	.90000	1054.0	.5190-01	.6297-01	.5846-01	.9361	.1255-02	.1413-02	.8989	7.155	543.2
613	46.800	.95000	1055.0	.4265-01	.5174-01	.4804-01	.9361	.1031-02	.1161-02	.7391	6.590	542.9
613	46.800	.97500	1056.0	.2917-01	.3537-01	.3537-01	.9000	.7054-03	.8552-03	.5071	4.042	540.7
613	46.800	1.0450	59.000	.3464-01	.4195-01	.4195-01	.9000	.8376-03	.1014-02	.6058	4.516	536.4
613	46.800	1.0600	60.000	.3334-01	.4036-01	.4036-01	.9000	.8061-03	.9759-03	.5839	4.214	535.4
613	93.600	.90000	1066.0	.5481-01	.6647-01	.6252-01	.9296	.1325-02	.1512-02	.9514	7.073	541.7
613	93.600	.95000	1067.0	.6684-01	.8106-01	.7665-01	.9270	.1616-02	.1853-02	1.160	8.924	541.7
613	93.600	.97500	1068.0	.5960-01	.7233-01	.6856-01	.9257	.1441-02	.1658-02	1.032	8.208	543.8
613	93.600	1.0150	69.000	.3815-01	.4624-01	.4398-01	.9242	.9225-03	.1063-02	.6647	5.398	539.2
613	93.600	1.0300	70.000	.4214-01	.5105-01	.4857-01	.9242	.1019-02	.1174-02	.7352	5.764	538.1
613	93.600	1.0450	71.000	.4548-01	.5509-01	.5241-01	.9242	.1100-02	.1267-02	.7935	6.115	537.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 395

OH84B 60-0 FUSELAGE

(R40840)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
595	2.001	7.980	40.02	.1392-01	435.8	1304.	94.91	.4537-01	2.022	3811.	.1290-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
595	.3508-01	.2869-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
595	46.800	.90000	1054.0	.9109-01	.1108	.1027	.9362	.3196-02	.3604-02	2.341	18.38	571.0
595	46.800	.95000	1055.0	.8959-01	.1090	.1011	.9362	.3143-02	.3546-02	2.296	20.17	573.1
595	46.800	.97500	1056.0	.7394-01	.8989-01	.8989-01	.9000	.2594-02	.3153-02	1.906	14.98	568.8
595	46.800	1.0450	59.000	.1009	.1225	.1225	.9000	.3540-02	.4296-02	2.622	19.29	563.0
595	46.800	1.0600	60.000	.9277-01	.1125	.1125	.9000	.3255-02	.3947-02	2.418	17.23	560.8
595	93.600	.90000	1066.0	.9072-01	.1103	.1036	.9298	.3183-02	.3636-02	2.340	17.17	568.4
595	93.600	.95000	1067.0	.1115	.1357	.1281	.9271	.3913-02	.4495-02	2.868	21.74	570.6
595	93.600	.97500	1068.0	.1144	.1393	.1319	.9258	.4012-02	.4626-02	2.924	22.91	574.8
595	93.600	1.0150	69.000	.8404-01	.1022	.9707-01	.9243	.2948-02	.3405-02	2.167	17.34	568.6
595	93.600	1.0300	70.000	.9608-01	.1167	.1109	.9243	.3371-02	.3890-02	2.491	19.27	564.7
595	93.600	1.0450	71.000	.1033	.1255	.1193	.9243	.3625-02	.4184-02	2.679	20.36	564.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 396

OH84B 60-0 FUSELAGE

(R4UB40)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
577	3.019	7.990	40.06	.6989-02	670.3	1318.	95.71	.6922-01	3.093	3832.	.1952-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
577	.4347-01	.2335-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
577	46.800	.90000	1054.0	.2070	.2541	.2347	.9363	.8998-02	.1020-01	6.397	49.34	606.7
577	46.800	.95000	1055.0	.1942	.2387	.2203	.9363	.8442-02	.9578-02	5.967	51.44	610.8
577	46.800	.97500	1056.0	.1761	.2158	.2158	.9000	.7654-02	.9381-02	5.478	42.35	601.9
577	46.800	1.0300	58.000	.1802	.2199	.2199	.9000	.7833-02	.9558-02	5.720	41.56	587.5
577	46.800	1.0450	59.000	.1774	.2166	.2166	.9000	.7712-02	.9416-02	5.613	40.74	589.7
577	46.800	1.0600	60.000	.1591	.1941	.1941	.9000	.6916-02	.8436-02	5.058	35.59	586.3
577	93.600	.90000	1066.0	.2025	.2482	.2325	.9298	.8802-02	.1011-01	6.301	45.47	601.8
577	93.600	.95000	1067.0	.2162	.2653	.2499	.9272	.9399-02	.1086-01	6.694	49.87	605.5
577	93.600	.97500	1068.0	.2271	.2792	.2635	.9259	.9872-02	.1146-01	6.969	53.61	611.8
577	93.600	1.0150	69.000	.1815	.2222	.2107	.9244	.7890-02	.9157-02	5.679	44.79	597.9
577	93.600	1.0300	70.000	.1810	.2212	.2098	.9244	.7868-02	.9121-02	5.703	43.51	592.8
577	93.600	1.0450	71.000	.1836	.2244	.2129	.9244	.7982-02	.9253-02	5.787	43.39	592.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 397

OH84B 60-0 FUSELAGE

(R4UB41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
625	.5056	7.900	39.96	.1729-01	100.1	1246.	92.40	.1112-01	.4859	3723.	.3249-03	.7435-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
625	.1706-01	.5691-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
625	46.800	.90000	1054.0	.5143-01	.6234-01	.5791-01	.9361	.8775-03	.9880-03	.6246	4.996	533.9
625	46.800	.95000	1055.0	.4223-01	.5119-01	.4755-01	.9361	.7205-03	.8112-03	.5129	4.594	533.9
625	46.800	.97500	1056.0	.2958-01	.3585-01	.3585-01	.9000	.5047-03	.6116-03	.3598	2.879	532.9
625	46.800	1.0450	59.000	.4134-01	.5012-01	.5012-01	.9000	.7053-03	.8551-03	.5016	3.743	534.5
625	46.800	1.0600	60.000	.4416-01	.5354-01	.5354-01	.9000	.7535-03	.9135-03	.5359	3.870	534.5
625	93.600	.90000	1066.0	.5601-01	.6788-01	.6387-01	.9296	.9556-03	.1090-02	.6808	5.084	533.2
625	93.600	.95000	1067.0	.6238-01	.7561-01	.7151-01	.9270	.1064-02	.1220-02	.7574	5.848	534.0
625	93.600	.97500	1068.0	.5858-01	.7103-01	.6736-01	.9257	.9995-03	.1149-02	.7103	5.677	535.0
625	93.600	1.0150	69.000	.2975-01	.3607-01	.3431-01	.9242	.5075-03	.5853-03	.3608	2.937	534.7
625	93.600	1.0300	70.000	.4654-01	.5643-01	.5367-01	.9242	.7939-03	.9157-03	.5642	4.430	535.1
625	93.600	1.0450	71.000	.5593-01	.6782-01	.6450-01	.9242	.9541-03	.1100-02	.6777	5.229	535.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 398

OH84B 60-0 FUSELAGE

(R4UB41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = 5.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
611	.9967	7.940	39.96	.1384-01	204.6	1265.	92.93	.2201-01	.9711	3752.	.6391-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
611	.2418-01	.4064-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TOI) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
611	46.800	.90000	1054.0	.5360-01	.6496-01	.6034-01	.9361	.1296-02	.1459-02	.9369	7.463	541.8
611	46.800	.95000	1055.0	.4389-01	.5319-01	.4940-01	.9361	.1061-02	.1195-02	.7676	6.849	541.4
611	46.800	.97500	1056.0	.2901-01	.3514-01	.3514-01	.9000	.7015-03	.8498-03	.5085	4.055	539.8
611	46.800	1.0450	59.000	.4707-01	.5701-01	.5701-01	.9000	.1138-02	.1379-02	.8252	6.141	539.7
611	46.800	1.0600	60.000	.4827-01	.5845-01	.5845-01	.9000	.1167-02	.1413-02	.8477	6.109	538.5
611	93.600	.90000	1066.0	.5416-01	.6562-01	.6175-01	.9296	.1310-02	.1493-02	.9481	7.052	540.7
611	93.600	.95000	1067.0	.6704-01	.8123-01	.7684-01	.9270	.1621-02	.1858-02	1.174	9.036	540.5
611	93.600	.97500	1068.0	.6304-01	.7640-01	.7245-01	.9257	.1524-02	.1752-02	1.102	8.780	541.7
611	93.600	1.0150	69.000	.3494-01	.4236-01	.4029-01	.9242	.8450-03	.9743-03	.6103	4.949	542.4
611	93.600	1.0300	70.000	.5143-01	.6234-01	.5929-01	.9242	.1244-02	.1434-02	.8986	7.031	542.2
611	93.600	1.0450	71.000	.5958-01	.7221-01	.6869-01	.9242	.1441-02	.1661-02	1.041	8.008	541.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 399

OH84B 60-0 FUSELAGE

(R4UB41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
597	2.013	7.980	40.02	.1392-01	434.8	1297.	94.40	.4526-01	2.018	3801.	.1294-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
597	.3501-01	.2863-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
597	46.800	.90000	1054.0	.9403-01	.1144	.1060	.9362	.3292-02	.3712-02	2.401	18.88	567.3
597	46.800	.95000	1055.0	.9317-01	.1134	.1051	.9362	.3262-02	.3680-02	2.374	20.89	568.8
597	46.800	.97500	1056.0	.7853-01	.9545-01	.9545-01	.9000	.2749-02	.3342-02	2.010	15.82	565.4
597	46.800	1.0300	58.000	.1435	.1745	.1745	.9000	.5023-02	.6111-02	3.657	26.83	568.5
597	46.800	1.0450	59.000	.1477	.1798	.1798	.9000	.5172-02	.6295-02	3.759	27.56	569.8
597	46.800	1.0600	60.000	.1440	.1750	.1750	.9000	.5040-02	.6128-02	3.683	26.17	566.0
597	93.600	.90000	1066.0	.9854-01	.1197	.1125	.9298	.3450-02	.3939-02	2.529	18.59	563.7
597	93.600	.95000	1067.0	.1152	.1401	.1323	.9271	.4034-02	.4633-02	2.947	22.39	566.2
597	93.600	.97500	1068.0	.1188	.1446	.1369	.9258	.4158-02	.4792-02	3.023	23.74	569.7
597	93.600	1.0150	69.000	.1397	.1704	.1617	.9243	.4889-02	.5662-02	3.514	27.99	578.0
597	93.600	1.0300	70.000	.1626	.1982	.1882	.9243	.5691-02	.6587-02	4.103	31.57	575.6
597	93.600	1.0450	71.000	.1868	.2279	.2164	.9243	.6540-02	.7574-02	4.700	35.50	578.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 400

OH84B 60-0 FUSELAGE

(R4UB41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 5.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
583	2.999	7.990	40.05	.1396-01	671.1	1325.	96.21	.6930-01	3.097	3842.	.1944-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
583	.4354-01	.2341-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
583	46.800	.90000	1054.0	.2006	.2460	.2273	.9363	.8733-02	.9896-02	6.269	48.35	606.8
583	46.800	.95000	1055.0	.1913	.2348	.2169	.9363	.8329-02	.9444-02	5.951	51.32	610.1
583	46.800	.97500	1056.0	.1747	.2139	.2139	.9000	.7606-02	.9313-02	5.497	42.50	601.9
583	46.800	1.0300	58.000	.2412	.2952	.2952	.9000	.1050-01	.1285-01	7.595	54.81	601.3
583	46.800	1.0450	59.000	.2319	.2840	.2840	.9000	.1010-01	.1237-01	7.290	52.58	602.7
583	46.800	1.0600	60.000	.2176	.2659	.2659	.9000	.9474-02	.1158-01	6.913	48.43	595.0
583	93.600	.90000	1066.0	.2001	.2449	.2296	.9298	.8710-02	.9994-02	6.302	45.49	601.1
583	93.600	.95000	1067.0	.2140	.2622	.2471	.9272	.9317-02	.1076-01	6.717	50.08	603.8
583	93.600	.97500	1068.0	.2246	.2757	.2604	.9259	.9778-02	.1134-01	6.984	53.76	610.4
583	93.600	1.0150	69.000	.2498	.3074	.2910	.9244	.1088-01	.1267-01	7.689	60.05	617.7
583	93.600	1.0300	70.000	.2418	.2967	.2811	.9244	.1053-01	.1224-01	7.542	57.11	608.2
583	93.600	1.0450	71.000	.2438	.2989	.2833	.9244	.1061-01	.1233-01	7.618	56.72	606.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 401

OH84B 60-0 FUSELAGE

(R4UB42)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
619	.5067	7.900	39.95	.1383-01	99.45	1239.	91.88	.1105-01	.4829	3712.	.3247-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
619	.1699-01	.5689-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
619	46.800	.90000	1054.0	.4841-01	.5875-01	.5454-01	.9361	.8225-03	.9267-03	.5787	4.625	535.1
619	46.800	.95000	1055.0	.4235-01	.5139-01	.4771-01	.9361	.7195-03	.8106-03	.5065	4.535	534.7
619	46.800	.97500	1056.0	.2565-01	.3112-01	.3112-01	.9000	.4359-03	.5287-03	.3075	2.460	533.2
619	46.800	1.0450	59.000	.4795-01	.5820-01	.5820-01	.9000	.8148-03	.9890-03	.5731	4.275	535.3
619	46.800	1.0600	60.000	.5250-01	.6372-01	.6372-01	.9000	.8921-03	.1083-02	.6277	4.531	535.1
619	93.600	.90000	1066.0	.5466-01	.6632-01	.6238-01	.9296	.9287-03	.1060-02	.6540	4.880	534.4
619	93.600	.95000	1067.0	.6183-01	.7504-01	.7094-01	.9270	.1051-02	.1205-02	.7392	5.705	535.0
619	93.600	.97500	1068.0	.5738-01	.6966-01	.6603-01	.9257	.9750-03	.1122-02	.6854	5.477	535.7
619	93.600	1.0150	69.000	.2218-01	.2692-01	.2559-01	.9242	.3768-03	.4349-03	.2651	2.158	535.1
619	93.600	1.0300	70.000	.4600-01	.5584-01	.5309-01	.9242	.7815-03	.9021-03	.5491	4.309	536.1
619	93.600	1.0450	71.000	.5993-01	.7276-01	.6918-01	.9242	.1018-02	.1175-02	.7149	5.513	536.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 402

OH84B 60-0 FUSELAGE

(R40842)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
617	1.002	7.940	39.97	.1731-01	206.2	1267.	93.08	.2218-01	.9787	3755.	.6431-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
617	.2428-01	.4052-01

TEST DATA

RUN NUMBER	Y0	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
617	46.800	.90000	1054.0	.5141-01	.6232-01	.5788-01	.9361	.1248-02	.1406-02	.9036	7.193	542.9
617	46.800	.95000	1055.0	.4251-01	.5152-01	.4785-01	.9361	.1032-02	.1162-02	.7479	6.670	542.2
617	46.800	.97500	1056.0	.2473-01	.2995-01	.2995-01	.9000	.6007-03	.7274-03	.4367	3.483	539.6
617	46.800	1.0450	59.000	.6339-01	.7689-01	.7689-01	.9000	.1539-02	.1867-02	1.110	8.241	545.3
617	46.800	1.0600	60.000	.6987-01	.8469-01	.8469-01	.9000	.1697-02	.2057-02	1.228	8.828	543.0
617	93.600	.90000	1066.0	.5547-01	.6721-01	.6324-01	.9296	.1347-02	.1536-02	.9769	7.264	541.4
617	93.600	.95000	1067.0	.6751-01	.8179-01	.7737-01	.9270	.1639-02	.1879-02	1.189	9.150	541.2
617	93.600	.97500	1068.0	.5825-01	.7062-01	.6696-01	.9257	.1415-02	.1626-02	1.023	8.143	543.4
617	93.600	1.0150	69.000	.2528-01	.3067-01	.2916-01	.9242	.6139-03	.7082-03	.4424	3.581	545.9
617	93.600	1.0300	70.000	.5606-01	.6803-01	.6469-01	.9242	.1361-02	.1571-02	.9804	7.654	546.5
617	93.600	1.0450	71.000	.7456-01	.9045-01	.8601-01	.9242	.1811-02	.2089-02	1.305	10.02	545.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 403

OH84B 60-0 FUSELAGE

(R4UB42)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 8.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
591	1.988	7.980	40.01	.1391-01	433.9	1306.	95.05	.4517-01	2.013	3814.	.1283-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
591	.3501-01	.2878-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
591	46.800	.90000	1054.0	.9059-01	.1102	.1022	.9362	.3172-02	.3578-02	2.327	18.26	571.9
591	46.800	.95000	1055.0	.9009-01	.1096	.1016	.9362	.3154-02	.3559-02	2.311	20.29	573.2
591	46.800	.97500	1056.0	.7275-01	.8839-01	.8839-01	.9000	.2547-02	.3095-02	1.880	14.79	567.5
591	46.800	1.0300	58.000	.1752	.2136	.2136	.9000	.6134-02	.7477-02	4.456	32.51	579.2
591	46.800	1.0450	59.000	.1843	.2249	.2249	.9000	.6454-02	.7875-02	4.669	34.01	582.3
591	46.800	1.0600	60.000	.1817	.2214	.2214	.9000	.6362-02	.7753-02	4.628	32.69	578.2
591	93.600	.90000	1066.0	.8877-01	.1079	.1014	.9297	.3108-02	.3550-02	2.293	16.82	568.0
591	93.600	.95000	1067.0	.1087	.1322	.1249	.9271	.3806-02	.4372-02	2.797	21.20	570.8
591	93.600	.97500	1068.0	.1122	.1365	.1293	.9258	.3927-02	.4527-02	2.873	22.52	574.0
591	93.600	1.0150	69.000	.1390	.1697	.1611	.9243	.4866-02	.5640-02	3.506	27.83	585.1
591	93.600	1.0300	70.000	.1676	.2045	.1941	.9243	.5868-02	.6797-02	4.242	32.52	582.7
591	93.600	1.0450	71.000	.1829	.2233	.2119	.9243	.6404-02	.7420-02	4.622	34.80	584.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 404

OH84B 60-0 FUSELAGE

(R4UB42)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
589	3.003	7.990	40.07	.1748-01	673.7	1327.	96.36	.6957-01	3.109	3845.	.1949-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
589	.4363-01	.2339-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
589	46.800	.90000	1054.0	.1993	.2445	.2259	.9363	.8696-02	.9857-02	6.238	48.05	609.3
589	46.800	.95000	1055.0	.1912	.2348	.2168	.9363	.8342-02	.9461-02	5.952	51.25	613.1
589	46.800	.97500	1056.0	.1723	.2110	.2110	.9000	.7518-02	.9207-02	5.435	41.97	603.7
589	46.800	1.0300	58.000	.2716	.3337	.3337	.9000	.1185-01	.1456-01	8.440	60.53	614.4
589	46.800	1.0450	59.000	.2613	.3213	.3213	.9000	.1140-01	.1402-01	8.102	58.06	616.0
589	46.800	1.0600	60.000	.2466	.3024	.3024	.9000	.1076-01	.1320-01	7.738	53.88	607.6
589	93.600	.90000	1066.0	.1998	.2447	.2293	.9299	.8717-02	.1001-01	6.303	45.44	603.6
589	93.600	.95000	1067.0	.2126	.2606	.2455	.9272	.9275-02	.1071-01	6.678	49.72	606.7
589	93.600	.97500	1068.0	.2225	.2734	.2581	.9259	.9708-02	.1126-01	6.920	53.19	613.8
589	93.600	1.0150	69.000	.2748	.3399	.3213	.9244	.1199-01	.1402-01	8.308	64.38	633.8
589	93.600	1.0300	70.000	.2708	.3337	.3158	.9244	.1182-01	.1378-01	8.319	62.54	622.7
589	93.600	1.0450	71.000	.2742	.3377	.3197	.9244	.1196-01	.1395-01	8.439	62.40	621.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 405

OH84B 60-0 FUSELAGE

(R4UB43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
627	.5147	7.900	39.95	.1383-01	101.4	1242.	92.10	.1127-01	.4923	3717.	.3302-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
627	.1716-01	.5643-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
627	46.800	.90000	1054.0	.5375-01	.6521-01	.6055-01	.9361	.9225-03	.1039-02	.6515	5.207	535.4
627	46.800	.95000	1055.0	.2175-01	.2637-01	.2449-01	.9361	.3732-03	.4203-03	.2643	2.368	533.5
627	46.800	.97500	1056.0	.3998-02	.4846-02	.4846-02	.9000	.6862-04	.8317-04	.4871-01	.3900	531.8
627	46.800	1.0450	59.000	.1515	.1846	.1846	.9000	.2600-02	.3168-02	1.801	13.34	548.8
627	46.800	1.0600	60.000	.1744	.2125	.2125	.9000	.2994-02	.3647-02	2.074	14.87	548.8
627	93.600	.90000	1066.0	.5356-01	.6498-01	.6112-01	.9296	.9193-03	.1049-02	.6499	4.849	534.8
627	93.600	.95000	1067.0	.5161-01	.6262-01	.5921-01	.9270	.8859-03	.1016-02	.6259	4.830	535.1
627	93.600	.97500	1068.0	.1420-01	.1721-01	.1632-01	.9257	.2437-03	.2801-03	.1727	1.382	532.9
627	93.600	1.0150	69.000	.2566-01	.3121-01	.2966-01	.9242	.4404-03	.5090-03	.3078	2.495	542.9
627	93.600	1.0300	70.000	.9819-01	.1196	.1136	.9242	.1685-02	.1949-02	1.171	9.144	546.7
627	93.600	1.0450	71.000	.1465	.1785	.1695	.9242	.2514-02	.2910-02	1.741	13.34	549.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 406

OH84B 60-0 FUSELAGE

(R4UB43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
609	1.024	7.940	39.98	.1386-01	209.1	1261.	92.64	.2249-01	.9925	3746.	.6553-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
609	.2443-01	.4012-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
609	46.800	.90000	1054.0	.5427-01	.6586-01	.6114-01	.9362	.1326-02	.1494-02	.9497	7.555	544.5
609	46.800	.95000	1055.0	.3361-01	.4076-01	.3785-01	.9362	.8212-03	.9249-03	.5897	5.259	542.6
609	46.800	.97500	1056.0	.6571-02	.7962-02	.7962-02	.9000	.1606-03	.1946-03	.1158	.9236	539.4
609	46.800	1.0450	59.000	.3361	.4117	.4117	.9000	.8212-02	.1006-01	5.634	41.20	574.6
609	46.800	1.0600	60.000	.3102	.3797	.3797	.9000	.7581-02	.9278-02	5.223	37.02	571.7
609	93.600	.90000	1066.0	.5568-01	.6754-01	.6353-01	.9297	.1360-02	.1552-02	.9761	7.252	543.2
609	93.600	.95000	1067.0	.6506-01	.7893-01	.7463-01	.9271	.1590-02	.1824-02	1.141	8.765	543.3
609	93.600	.97500	1068.0	.2299-01	.2787-01	.2542-01	.9258	.5617-03	.6456-03	.4043	3.222	540.9
609	93.600	1.0150	69.000	.8161-01	.9959-01	.9554-01	.9242	.1994-02	.2310-02	1.392	11.17	562.6
609	93.600	1.0300	70.000	.2379	.2913	.2762	.9242	.5813-02	.6750-02	4.001	30.83	572.5
609	93.600	1.0450	71.000	.3260	.3995	.3788	.9242	.7967-02	.9256-02	5.462	41.31	575.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 407

OH84B 60-0 FUSELAGE

(R4UB43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
599	1.990	7.980	40.04	.1744-01	435.0	1307.	95.13	.4528-01	2.019	3815.	.1285-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
599	.3506-01	.2876-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
599	46.800	.90000	1054.0	.9531-01	.1158	.1074	.9363	.3342-02	.3767-02	2.468	19.40	568.3
599	46.800	.95000	1055.0	.9158-01	.1113	.1032	.9363	.3211-02	.3620-02	2.364	20.79	570.3
599	46.800	.97500	1056.0	.7313-01	.8881-01	.8881-01	.9000	.2564-02	.3114-02	1.899	14.94	566.3
599	46.800	1.0300	58.000	.3800	.4679	.4679	.9000	.1332-01	.1641-01	9.266	66.55	611.2
599	46.800	1.0450	59.000	.3578	.4406	.4406	.9000	.1255-01	.1545-01	8.728	62.69	611.0
599	46.800	1.0600	60.000	.3285	.4031	.4031	.9000	.1152-01	.1414-01	8.129	56.79	600.9
599	93.600	.90000	1066.0	.9718-01	.1179	.1109	.9298	.3407-02	.3888-02	2.529	18.59	564.5
599	93.600	.95000	1067.0	.1135	.1379	.1303	.9272	.3981-02	.4569-02	2.942	22.34	567.7
599	93.600	.97500	1068.0	.1139	.1385	.1311	.9259	.3992-02	.4598-02	2.936	23.04	571.2
599	93.600	1.0150	69.000	.3160	.3904	.3692	.9244	.1108-01	.1295-01	7.594	59.21	621.3
599	93.600	1.0300	70.000	.3850	.4755	.4497	.9244	.1350-01	.1577-01	9.262	69.71	620.5
599	93.600	1.0450	71.000	.3757	.4634	.4384	.9244	.1317-01	.1537-01	9.099	67.45	616.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 408

OH84B 60-0 FUSELAGE

(R4UB43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
585	2.982	7.990	40.06	.1397-01	669.7	1328.	96.43	.6916-01	3.091	3846.	.1936-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
585	.4351-01	.2347-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
585	46.800	.90000	1054.0	.2044	.2507	.2316	.9363	.8894-02	.1008-01	6.402	49.35	607.8
585	46.800	.95000	1055.0	.1914	.2349	.2170	.9363	.8326-02	.9441-02	5.961	51.37	611.7
585	46.800	.97500	1056.0	.1717	.2102	.2102	.9000	.7469-02	.9144-02	5.412	41.81	603.1
585	46.800	1.0300	58.000	.3710	.4597	.4597	.9000	.1614-01	.2000-01	11.11	78.72	639.3
585	46.800	1.0450	59.000	.3490	.4324	.4324	.9000	.1518-01	.1881-01	10.45	73.99	639.7
585	46.800	1.0600	60.000	.3253	.4015	.4015	.9000	.1415-01	.1747-01	9.898	68.23	628.3
585	93.600	.90000	1066.0	.1994	.2440	.2287	.9298	.8675-02	.9951-02	6.302	45.49	601.2
585	93.600	.95000	1067.0	.2135	.2616	.2465	.9272	.9290-02	.1072-01	6.716	50.06	604.8
585	93.600	.97500	1068.0	.2225	.2732	.2580	.9259	.9682-02	.1122-01	6.932	53.33	611.7
585	93.600	1.0150	69.000	.3947	.4934	.4650	.9244	.1717-01	.2023-01	11.40	87.09	663.8
585	93.600	1.0300	70.000	.3695	.4592	.4335	.9244	.1608-01	.1886-01	10.93	81.17	647.9
585	93.600	1.0450	71.000	.3629	.4504	.4253	.9244	.1579-01	.1851-01	10.79	78.90	644.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 409

OH84B 60-0 FUSELAGE

(R4UB44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 23.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
629	.5153	7.900	39.96	.1729-01	101.8	1244.	92.25	.1131-01	.4940	3720.	.3309-03	.7423-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
629	.1720-01	.5638-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
629	46.800	.90000	1054.0	.5531-01	.6708-01	.6229-01	.9361	.9513-03	.1071-02	.6743	5.390	534.8
629	46.800	.95000	1055.0	.1689-01	.2048-01	.1902-01	.9361	.2906-03	.3271-03	.2065	1.851	532.9
629	46.800	.97500	1056.0	.1270-01	.1539-01	.1539-01	.9000	.2184-03	.2647-03	.1552	1.242	533.0
629	46.800	1.0450	59.000	.3843	.4710	.4710	.9000	.6610-02	.8101-02	4.468	32.78	567.8
629	46.800	1.0600	60.000	.3925	.4804	.4804	.9000	.6750-02	.8262-02	4.587	32.63	564.1
629	93.600	.90000	1066.0	.5471-01	.6635-01	.6242-01	.9296	.9410-03	.1073-02	.6675	4.982	534.3
629	93.600	.95000	1067.0	.2390-01	.2895-01	.2739-01	.9270	.4110-03	.4710-03	.2926	2.262	531.6
629	93.600	.97500	1068.0	.2179-01	.2642-01	.2505-01	.9257	.3748-03	.4308-03	.2663	2.130	533.3
629	93.600	1.0150	69.000	.6314-01	.7698-01	.7311-01	.9242	.1086-02	.1257-02	.7507	6.056	552.3
629	93.600	1.0300	70.000	.2578	.3153	.2992	.9242	.4434-02	.5146-02	3.021	23.40	562.2
629	93.600	1.0450	71.000	.3894	.4774	.4527	.9242	.6697-02	.7785-02	4.520	34.30	568.7
629	93.600	1.0600	72.000	.2997	.3665	.3478	.9242	.5155-02	.5982-02	3.519	28.78	561.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 410

OH84B 60-0 FUSELAGE

(R4UB44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
607	.9872	7.940	39.96	.1383-01	205.3	1276.	93.74	.2208-01	.9744	3769.	.6358-03	.7543-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
607	.2426-01	.4078-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
607	46.800	.90000	1054.0	.4883-01	.5914-01	.5495-01	.9361	.1185-02	.1333-02	.8670	6.899	543.8
607	46.800	.95000	1055.0	.1780-01	.2153-01	.2002-01	.9361	.4319-03	.4856-03	.3179	2.840	539.5
607	46.800	.97500	1056.0	.1557-01	.1883-01	.1883-01	.9000	.3777-03	.4568-03	.2784	2.221	538.8
607	46.800	1.0450	59.000	.4911	.6040	.6040	.9000	.1191-01	.1465-01	8.126	58.87	593.6
607	46.800	1.0600	60.000	.4318	.5292	.5292	.9000	.1048-01	.1284-01	7.264	51.21	582.3
607	93.600	.90000	1066.0	.5534-01	.6698-01	.6305-01	.9296	.1343-02	.1530-02	.9850	7.322	542.0
607	93.600	.95000	1067.0	.4176-01	.5051-01	.4780-01	.9270	.1013-02	.1160-02	.7458	5.742	539.5
607	93.600	.97500	1068.0	.2445-01	.2958-01	.2807-01	.9257	.5932-03	.6809-03	.4366	3.482	539.6
607	93.600	1.0150	69.000	.1778	.2176	.2064	.9242	.4314-02	.5008-02	3.013	24.01	577.3
607	93.600	1.0300	70.000	.4747	.5847	.5537	.9242	.1152-01	.1343-01	7.808	59.43	597.7
607	93.600	1.0450	71.000	.4928	.6064	.5744	.9242	.1195-01	.1394-01	8.135	60.92	595.2

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 411

OH84B 60-O FUSELAGE

(R4UB44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
601	1.999	7.980	39.99	.1388-01	435.3	1304.	94.91	.4531-01	2.020	3811.	.1289-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
601	.3506-01	.2871-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
601	46.800	.90000	1054.0	.9942-01	.1209	.1122	.9362	.3486-02	.3932-02	2.553	20.04	571.1
601	46.800	.95000	1055.0	.9141-01	.1113	.1032	.9362	.3205-02	.3617-02	2.342	20.57	573.1
601	46.800	.97500	1056.0	.6942-01	.8439-01	.8439-01	.9000	.2434-02	.2959-02	1.789	14.06	568.6
601	46.800	1.0300	58.000	.5169	.6445	.6445	.9000	.1812-01	.2260-01	11.94	84.32	645.1
601	46.800	1.0450	59.000	.4678	.5824	.5824	.9000	.1640-01	.2042-01	10.86	76.89	641.3
601	46.800	1.0600	60.000	.4280	.5304	.5304	.9000	.1501-01	.1860-01	10.13	69.81	628.6
601	93.600	.90000	1066.0	.9217-01	.1120	.1053	.9297	.3232-02	.3692-02	2.376	17.43	568.3
601	93.600	.95000	1067.0	.1122	.1365	.1289	.9271	.3934-02	.4520-02	2.883	21.85	570.7
601	93.600	.97500	1068.0	.1017	.1238	.1172	.9258	.3567-02	.4111-02	2.608	20.46	572.5
601	93.600	1.0150	69.000	.4558	.5718	.5385	.9243	.1598-01	.1888-01	10.27	78.51	661.3
601	93.600	1.0300	70.000	.5217	.6533	.6156	.9243	.1829-01	.2158-01	11.83	87.51	656.7
601	93.600	1.0450	71.000	.4854	.6058	.5714	.9243	.1702-01	.2003-01	11.17	81.57	647.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 412

OH84B 60-0 FUSELAGE

(R4UB44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
587	3.006	7.990	40.06	.1398-01	671.3	1323.	96.07	.6933-01	3.098	3839.	.1948-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
587	.4353-01	.2339-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWJT DEG. R /SEC	TW DEG. R
587	46.800	.90000	1054.0	.1986	.2434	.2249	.9363	.8644-02	.9791-02	6.209	47.95	604.3
587	46.800	.95000	1055.0	.1915	.2350	.2170	.9363	.8335-02	.9448-02	5.954	51.39	608.3
587	46.800	.97500	1056.0	.1740	.2131	.2131	.9000	.7575-02	.9275-02	5.467	42.28	601.0
587	46.800	1.0300	58.000	.4779	.5977	.5977	.9000	.2080-01	.2602-01	13.73	96.21	662.6
587	46.800	1.0450	59.000	.4511	.5641	.5641	.9000	.1964-01	.2456-01	12.96	90.83	662.5
587	46.800	1.0600	60.000	.4206	.5233	.5233	.9000	.1831-01	.2278-01	12.34	84.24	648.6
587	93.600	.90000	1066.0	.2013	.2463	.2309	.9298	.8763-02	.1005-01	6.340	45.80	599.2
587	93.600	.95000	1067.0	.2156	.2641	.2489	.9272	.9386-02	.1083-01	6.758	50.43	602.6
587	93.600	.97500	1068.0	.2241	.2751	.2597	.9259	.9753-02	.1131-01	6.953	53.54	609.8
587	93.600	1.0150	69.000	.5046	.6388	.5998	.9244	.2196-01	.2611-01	13.82	104.1	693.3
587	93.600	1.0300	70.000	.4866	.6117	.5756	.9244	.2118-01	.2505-01	13.70	100.4	675.9
587	93.600	1.0450	71.000	.4721	.5921	.5575	.9244	.2055-01	.2427-01	13.42	96.92	669.8

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 413

OH84B 60-O FUSELAGE

(R4UB45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = -5.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
681	.5058	7.900	39.93	-.1034-01	101.2	1255.	93.06	.1125-01	.4913	3736.	.3262-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
681	.1718-01	.5684-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
681	46.800	.90000	1054.0	.5487-01	.6647-01	.6177-01	.9360	.9425-03	.1061-02	.6775	5.413	535.9
681	46.800	.95000	1055.0	.4363-01	.5284-01	.4910-01	.9360	.7494-03	.8434-03	.5393	4.828	535.0
681	46.800	.97500	1056.0	.2814-01	.3408-01	.3408-01	.9000	.4835-03	.5854-03	.3484	2.786	534.0
681	46.800	1.0450	59.000	.2521-01	.3048-01	.3048-01	.9000	.4331-03	.5236-03	.3144	2.352	528.9
681	46.800	1.0600	60.000	.2300-01	.2780-01	.2780-01	.9000	.3950-03	.4776-03	.2868	2.077	528.7
681	93.600	.90000	1066.0	.5482-01	.6640-01	.6250-01	.9295	.9417-03	.1074-02	.6778	5.056	535.0
681	93.600	.95000	1067.0	.5428-01	.6574-01	.6220-01	.9269	.9325-03	.1068-02	.6715	5.184	534.5
681	93.600	.97500	1068.0	.5229-01	.6334-01	.6008-01	.9256	.8982-03	.1032-02	.6461	5.163	535.4
681	93.600	1.0150	69.000	.3000-01	.3630-01	.3455-01	.9241	.5154-03	.5936-03	.3726	3.037	531.7
681	93.600	1.0300	70.000	.3151-01	.3811-01	.3628-01	.9241	.5412-03	.6231-03	.3919	3.085	530.5
681	93.600	1.0450	71.000	.3394-01	.4105-01	.3908-01	.9241	.5831-03	.6713-03	.4226	3.270	529.9

DATE 23 FEB 80.

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 414

OH84B 60-0 FUSELAGE

(R4UB45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
667	1.005	7.940	39.96	-.6922-02	205.3	1261.	92.64	.2208-01	.9744	3746.	.6433-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
667	.2421-01	.4049-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
667	46.800	.90000	1054.0	.5529-01	.6713-01	.6231-01	.9361	.1339-02	.1508-02	.9567	7.605	545.9
667	46.800	.95000	1055.0	.4406-01	.5347-01	.4964-01	.9361	.1067-02	.1202-02	.7637	6.804	544.7
667	46.800	.97500	1056.0	.2807-01	.3403-01	.3403-01	.9000	.6795-03	.8240-03	.4886	3.892	541.7
667	46.800	1.0450	59.000	.2468-01	.2985-01	.2985-01	.9000	.5975-03	.7228-03	.4346	3.245	533.3
667	46.800	1.0600	60.000	.2244-01	.2714-01	.2714-01	.9000	.5434-03	.6572-03	.3956	2.859	532.6
667	93.600	.90000	1066.0	.5434-01	.6594-01	.6202-01	.9296	.1316-02	.1501-02	.9422	6.996	544.4
667	93.600	.95000	1067.0	.5522-01	.6700-01	.6335-01	.9270	.1337-02	.1534-02	.9584	7.363	543.8
667	93.600	.97500	1068.0	.5273-01	.6400-01	.6067-01	.9257	.1277-02	.1469-02	.9143	7.273	544.6
667	93.600	1.0150	69.000	.3068-01	.3714-01	.3534-01	.9242	.7429-03	.8556-03	.5387	4.383	535.5
667	93.600	1.0450	71.000	.3412-01	.4129-01	.3929-01	.9242	.8262-03	.9513-03	.6002	4.634	534.2
667	93.600	1.0600	72.000	.2173-01	.2615-01	.2493-01	.9242	.5262-03	.6035-03	.3924	3.286	514.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 415

OH84B 60-0 FUSELAGE

(R4UB45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
687	1.992	7.980	40.00	-1.6947-02	434.9	1306.	95.05	.4527-01	2.018	3814.	.1285-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
687	.3505-01	.2875-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
687	46.800	.90000	1054.0	.9114-01	.1107	.1027	.9362	.3195-02	.3601-02	2.360	18.56	567.0
687	46.800	.95000	1055.0	.8920-01	.1084	.1006	.9362	.3127-02	.3525-02	2.304	20.28	568.7
687	46.800	.97500	1056.0	.7379-01	.8956-01	.8956-01	.9000	.2587-02	.3140-02	1.918	15.10	564.3
687	46.800	1.0450	59.000	.6151-01	.7435-01	.7435-01	.9000	.2156-02	.2606-02	1.630	12.07	549.7
687	46.800	1.0600	60.000	.5996-01	.7246-01	.7246-01	.9000	.2102-02	.2540-02	1.592	11.41	548.4
687	93.600	.90000	1066.0	.8814-01	.1070	.1006	.9297	.3090-02	.3527-02	2.288	16.81	565.2
687	93.600	.95000	1067.0	.1050	.1276	.1205	.9271	.3681-02	.4226-02	2.719	20.65	566.9
687	93.600	.97500	1068.0	.1103	.1342	.1271	.9258	.3867-02	.4455-02	2.840	22.29	571.2
687	93.600	1.0150	69.000	.5852-01	.7079-01	.6736-01	.9243	.2051-02	.2361-02	1.545	12.46	552.7
687	93.600	1.0300	70.000	.6064-01	.7332-01	.6978-01	.9243	.2126-02	.2446-02	1.605	12.50	550.8
687	93.600	1.0450	71.000	.6446-01	.7795-01	.7418-01	.9243	.2260-02	.2600-02	1.705	13.05	551.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 416

OH84B 60-0 FUSELAGE

(R4UB45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
701	2.998	7.990	40.05	-.6978-02	669.5	1323.	96.07	.6914-01	3.090	3839.	.1942-02	.7731-07

RUN NUMBER	HREF STU/ R FT2SEC	STN NO REF(R) =.0175
701	.4347-01	.2342-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) STU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
701	46.800	.90000	1054.0	.2010	.2467	.2279	.9363	.8737-02	.9908-02	6.229	47.97	609.7
701	46.800	.95000	1055.0	.1891	.2324	.2146	.9363	.8218-02	.9328-02	5.823	50.11	614.2
701	46.800	.97500	1056.0	.1613	.1978	.1978	.9000	.7010-02	.8598-02	5.020	38.71	606.6
701	46.800	1.0450	59.000	.1249	.1521	.1521	.9000	.5431-02	.6611-02	4.023	29.32	581.8
701	46.800	1.0600	60.000	.1199	.1458	.1458	.9000	.5213-02	.6339-02	3.880	27.41	578.3
701	93.600	.90000	1066.0	.1964	.2408	.2256	.9298	.8538-02	.9806-02	6.129	44.15	604.8
701	93.600	.95000	1067.0	.2124	.2608	.2456	.9272	.9233-02	.1068-01	6.576	48.88	610.4
701	93.600	.97500	1068.0	.2251	.2770	.2614	.9259	.9784-02	.1136-01	6.898	52.91	617.6
701	93.600	1.0150	69.000	.1182	.1440	.1367	.9244	.5136-02	.5942-02	3.789	30.07	585.1
701	93.600	1.0300	70.000	.1182	.1439	.1367	.9244	.5140-02	.5942-02	3.806	29.19	582.1
701	93.600	1.0450	71.000	.1261	.1536	.1458	.9244	.5480-02	.6338-02	4.048	30.48	584.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 417

OH84B 60-0 FUSELAGE

(R4UB46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
679	X10.6 .5025	7.900	39.97	-.6923-02	100.5	1255.	93.06	.1117-01	.4881	3736.	.3241-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
679	.1712-01	.5703-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
679	46.800	.90000	1054.0	.4709-01	.5705-01	.5300-01	.9361	.8062-03	.9075-03	.5789	4.624	536.6
679	46.800	.95000	1055.0	.3973-01	.4813-01	.4472-01	.9361	.6802-03	.7656-03	.4889	4.375	535.9
679	46.800	.97500	1056.0	.2771-01	.3356-01	.3356-01	.9000	.4745-03	.5746-03	.3417	2.732	534.6
679	46.800	1.0450	59.000	.2959-01	.3582-01	.3582-01	.9000	.5067-03	.6133-03	.3658	2.732	532.7
679	46.800	1.0600	60.000	.2884-01	.3491-01	.3491-01	.9000	.4938-03	.5977-03	.3565	2.577	532.8
679	93.600	.90000	1066.0	.5268-01	.6382-01	.6006-01	.9296	.9020-03	.1028-02	.6485	4.836	535.7
679	93.600	.95000	1067.0	.5259-01	.6370-01	.6026-01	.9270	.9004-03	.1032-02	.6474	4.995	535.6
679	93.600	.97500	1068.0	.5089-01	.6166-01	.5848-01	.9257	.8713-03	.1001-02	.6257	4.997	536.6
679	93.600	1.0150	69.000	.3109-01	.3764-01	.3582-01	.9242	.5323-03	.6132-03	.3836	3.123	534.1
679	93.600	1.0300	70.000	.3675-01	.4449-01	.4233-01	.9242	.6292-03	.7248-03	.4534	3.563	534.0
679	93.600	1.0450	71.000	.4124-01	.4993-01	.4751-01	.9242	.7060-03	.8134-03	.5088	3.928	534.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 418

OH84B 60-0 FUSELAGE

(R4UB46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
665	1.003	7.940	39.97	-1.1732-01	205.8	1265.	92.93	.2213-01	.9768	3752.	.6429-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
665	.2425-01	.4052-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
665	46.800	.90000	1054.0	.5270-01	.6408-01	.5944-01	.9361	.1278-02	.1442-02	.9099	7.208	552.8
665	46.800	.95000	1055.0	.4154-01	.5051-01	.4685-01	.9361	.1007-02	.1136-02	.7171	6.362	552.9
665	46.800	.97500	1056.0	.2707-01	.3289-01	.3289-01	.9000	.6566-03	.7977-03	.4696	3.726	549.5
665	46.800	1.0300	58.000	.2867-01	.3479-01	.3479-01	.9000	.6954-03	.8438-03	.5000	3.710	545.6
665	46.800	1.0450	59.000	.2948-01	.3578-01	.3578-01	.9000	.7149-03	.8677-03	.5134	3.808	546.5
665	46.800	1.0600	60.000	.2855-01	.3464-01	.3464-01	.9000	.6923-03	.8402-03	.4976	3.573	545.9
665	93.600	.90000	1066.0	.5319-01	.6466-01	.6077-01	.9297	.1290-02	.1474-02	.9202	6.808	551.4
665	93.600	.95000	1067.0	.5355-01	.6511-01	.6152-01	.9270	.1299-02	.1492-02	.9254	7.080	552.2
665	93.600	.97500	1069.0	.5032-01	.6121-01	.5798-01	.9257	.1221-02	.1406-02	.8677	6.870	553.8
665	93.600	1.0150	69.000	.2870-01	.3485-01	.3313-01	.9242	.6961-03	.8036-03	.4989	4.034	547.9
665	93.600	1.0450	71.000	.4173-01	.5067-01	.4817-01	.9242	.1012-02	.1168-02	.7252	5.559	548.1
665	93.600	1.0600	72.000	.2168-01	.2520-01	.2425-01	.9242	.5257-03	.5881-03	.4748	4.316	361.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 419

OH84B 60-0 FUSELAGE

(R4UB46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
689	1.996	7.980	39.99	-1.1041-01	434.3	1303.	94.84	.4521-01	2.015	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
689	.3502-01	.2873-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
689	46.800	.90000	1054.0	.9044-01	.1100	.1020	.9362	.3167-02	.3571-02	2.324	18.26	568.8
689	46.800	.95000	1055.0	.8837-01	.1075	.9970-01	.9362	.3094-02	.3491-02	2.263	19.90	571.2
689	46.800	.97500	1056.0	.7476-01	.9082-01	.9082-01	.9000	.2618-02	.3180-02	1.928	15.17	566.0
689	46.800	1.0450	59.000	.9772-01	.1186	.1186	.9000	.3422-02	.4153-02	2.533	18.64	562.4
689	46.800	1.0600	60.000	.9115-01	.1106	.1106	.9000	.3192-02	.3872-02	2.366	16.85	561.5
689	93.600	.90000	1066.0	.8978-01	.1091	.1026	.9297	.3144-02	.3591-02	2.313	16.98	567.0
689	93.600	.95000	1067.0	.1044	.1270	.1199	.9271	.3656-02	.4200-02	2.680	20.33	569.5
689	93.600	.97500	1068.0	.1106	.1347	.1276	.9258	.3874-02	.4466-02	2.824	22.14	573.7
689	93.600	1.0150	69.000	.8019-01	.9740-01	.9258-01	.9243	.2808-02	.3242-02	2.070	16.99	565.4
689	93.600	1.0300	70.000	.9402-01	.1141	.1085	.9243	.3292-02	.3800-02	2.433	18.83	563.6
689	93.600	1.0450	71.000	.1011	.1227	.1167	.9243	.3529-02	.4085-02	2.612	19.86	564.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 420

OH84B 60-0 FUSELAGE

(R4UB48)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
699	2.999	7.990	40.05	-.6984-02	670.4	1324.	96.14	.6923-01	3.094	3841.	.1944-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
699	.4351-01	.2341-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
699	46.800	.90000	1054.0	.1907	.2342	.2163	.9363	.8299-02	.9410-02	5.925	45.63	609.7
699	46.800	.95000	1055.0	.1852	.2276	.2101	.9363	.8057-02	.9143-02	5.716	49.20	614.2
699	46.800	.97500	1056.0	.1603	.1965	.1955	.9000	.6973-02	.8551-02	5.001	38.57	606.5
699	46.800	1.0450	59.000	.1785	.2181	.2181	.9000	.7766-02	.9491-02	5.657	40.95	595.2
699	46.800	1.0600	60.000	.1626	.1986	.1986	.9000	.7076-02	.8640-02	5.172	36.28	592.6
699	93.600	.90000	1066.0	.1961	.2403	.2252	.9298	.8532-02	.9797-02	6.138	44.24	604.2
699	93.600	.95000	1067.0	.2132	.2617	.2464	.9272	.9274-02	.1072-01	6.618	49.20	610.0
699	93.600	.97500	1068.0	.2251	.2770	.2614	.9259	.9794-02	.1137-01	6.919	53.09	617.2
699	93.600	1.0150	69.000	.1779	.2179	.2066	.9244	.7741-02	.8987-02	5.583	43.94	602.3
699	93.600	1.0300	70.000	.1806	.2208	.2094	.9244	.7856-02	.9111-02	5.705	43.43	597.4
699	93.600	1.0450	71.000	.1818	.2223	.2108	.9244	.7908-02	.9172-02	5.742	42.94	597.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 421

OH84B 60-0 FUSELAGE

(R4UB47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
683	.5030	7.900	39.93	-.6896-02	100.5	1254.	92.99	.1117-01	.4880	3735.	.3242-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
683	.1712-01	.5700-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
683	46.800	.90000	1054.0	.5325-01	.6453-01	.5995-01	.9360	.9115-03	.1026-02	.6539	5.223	536.3
683	46.800	.95000	1055.0	.4313-01	.5226-01	.4856-01	.9360	.7383-03	.8312-03	.5300	4.743	535.8
683	46.800	.97500	1056.0	.1980-01	.2397-01	.2397-01	.9000	.3389-03	.4103-03	.2438	1.950	534.1
683	46.800	1.0300	58.000	.2946-01	.3569-01	.3569-01	.9000	.5042-03	.6110-03	.3617	2.697	536.3
683	46.800	1.0450	59.000	.4082-01	.4948-01	.4948-01	.9000	.6987-03	.8470-03	.5004	3.728	537.6
683	46.800	1.0600	60.000	.4839-01	.5866-01	.5866-01	.9000	.8284-03	.1004-02	.5936	4.281	537.2
683	93.600	.90000	1066.0	.5351-01	.6483-01	.6101-01	.9295	.9159-03	.1044-02	.6576	4.904	535.7
683	93.600	.95000	1067.0	.5438-01	.6588-01	.6233-01	.9269	.9309-03	.1067-02	.6683	5.156	535.7
683	93.600	.97500	1068.0	.4838-01	.5862-01	.5560-01	.9256	.8281-03	.9518-03	.5938	4.743	536.5
683	93.600	1.0150	69.000	.1506-01	.1825-01	.1737-01	.9241	.2578-03	.2973-03	.1848	1.502	537.0
683	93.600	1.0300	70.000	.3949-01	.4789-01	.4556-01	.9241	.6760-03	.7798-03	.4834	3.789	538.7
683	93.600	1.0450	71.000	.5702-01	.6915-01	.6578-01	.9241	.9761-03	.1126-02	.6977	5.374	538.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 422

OH84B 60-0 FUSELAGE

(R4UB47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MJ LB-SEC /FT2
669	1.010	7.940	39.95	-.1037-01	205.9	1259.	92.49	.2215-01	.9773	3743.	.6462-03	.7443-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
669	.2424-01	.4040-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
669	46.800	.90000	1054.0	.5561-01	.6753-01	.6268-01	.9361	.1348-02	.1519-02	.9617	7.647	545.3
669	46.800	.95000	1055.0	.4333-01	.5260-01	.4883-01	.9361	.1050-02	.1184-02	.7505	6.688	544.2
669	46.800	.97500	1056.0	.1658-01	.2010-01	.2010-01	.9000	.4018-03	.4872-03	.2888	2.302	540.0
669	46.800	1.0300	58.000	.4350-01	.5281-01	.5281-01	.9000	.1054-02	.1280-02	.7528	5.589	544.7
669	46.800	1.0450	59.000	.5900-01	.7167-01	.7167-01	.9000	.1430-02	.1737-02	1.019	7.556	546.4
669	46.800	1.0600	60.000	.7040-01	.8547-01	.8547-01	.9000	.1707-02	.2072-02	1.218	8.752	544.8
669	93.600	.90000	1066.0	.5380-01	.6530-01	.6142-01	.9296	.1304-02	.1489-02	.9323	6.924	543.8
669	93.600	.95000	1067.0	.5517-01	.6695-01	.6330-01	.9270	.1337-02	.1534-02	.9567	7.352	543.3
669	93.600	.97500	1068.0	.4666-01	.5663-01	.5368-01	.9257	.1131-02	.1301-02	.8084	6.433	543.9
669	93.600	1.0150	69.000	.1839-01	.2234-01	.2124-01	.9242	.4458-03	.5148-03	.3176	2.570	546.4
669	93.600	1.0450	71.000	.7315-01	.8885-01	.8447-01	.9242	.1773-02	.2048-02	1.262	9.685	546.7
669	93.600	1.0600	72.000	.1213	.1463	.1393	.9242	.2940-02	.3378-02	2.166	18.08	521.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 423

OH84B 60-0 FUSELAGE

(R4UB47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 8.000 SPDBRK = 0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
685	2.023	7.980	39.98	-.6930-02	434.5	1292.	94.03	.4523-01	2.016	3794.	.1298-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
685	.3497-01	.2858-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
685	46.800	.90000	1054.0	.9649-01	.1173	.1088	.9361	.3375-02	.3806-02	2.455	19.33	564.2
685	46.800	.95000	1055.0	.9117-01	.1109	.1029	.9361	.3189-02	.3598-02	2.311	20.36	567.0
685	46.800	.97500	1056.0	.7536-01	.9158-01	.9158-01	.9000	.2636-02	.3203-02	1.922	15.15	562.5
685	46.800	1.0300	58.000	.1851	.2258	.2258	.9000	.6474-02	.7897-02	4.639	33.92	575.1
685	46.800	1.0450	59.000	.1986	.2428	.2428	.9000	.6946-02	.8490-02	4.933	35.95	581.5
685	46.800	1.0600	60.000	.2009	.2454	.2454	.9000	.7028-02	.8582-02	5.012	35.40	578.5
685	93.600	.90000	1066.0	.9157-01	.1113	.1046	.9297	.3202-02	.3658-02	2.334	17.17	562.7
685	93.600	.95000	1067.0	.1052	.1279	.1209	.9271	.3678-02	.4227-02	2.671	20.30	565.5
685	93.600	.97500	1068.0	.1126	.1372	.1299	.9257	.3940-02	.4543-02	2.844	22.34	569.7
685	93.600	1.0150	69.000	.1469	.1796	.1704	.9242	.5137-02	.5959-02	3.643	28.95	582.4
685	93.600	1.0300	70.000	.1769	.2161	.2051	.9242	.6186-02	.7173-02	4.397	33.75	580.8
685	93.600	1.0450	71.000	.1940	.2372	.2250	.9242	.6784-02	.7870-02	4.813	36.27	582.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 424

OH84B 60-0 FUSELAGE

(R4UB47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BOFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
703	2.990	7.990	40.01	-.6955-02	668.4	1324.	96.14	.6903-01	3.085	3841.	.1938-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
703	.4344-01	.2345-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
703	46.800	.90000	1054.0	.2029	.2489	.2300	.9362	.8813-02	.9992-02	6.302	48.56	608.5
703	46.800	.95000	1055.0	.1918	.2356	.2176	.9362	.8331-02	.9454-02	5.923	51.01	612.7
703	46.800	.97500	1056.0	.1607	.1970	.1970	.9000	.6981-02	.8559-02	5.011	38.67	605.8
703	46.800	1.0300	58.000	.2752	.3382	.3382	.9000	.1195-01	.1469-01	8.497	60.97	612.9
703	46.800	1.0450	59.000	.2649	.3263	.3263	.9000	.1151-01	.1417-01	8.106	57.98	619.4
703	46.800	1.0600	60.000	.2525	.3101	.3101	.9000	.1097-01	.1347-01	7.811	54.28	611.6
703	93.600	.90000	1066.0	.1967	.2409	.2258	.9297	.8543-02	.9808-02	6.159	44.42	602.7
703	93.600	.95000	1067.0	.2158	.2647	.2494	.9271	.9373-02	.1083-01	6.707	49.90	608.2
703	93.600	.97500	1068.0	.2263	.2783	.2627	.9258	.9830-02	.1141-01	6.961	53.45	615.6
703	93.600	1.0150	69.000	.2818	.3491	.3299	.9243	.1224-01	.1433-01	8.411	65.09	636.6
703	93.600	1.0300	70.000	.2769	.3417	.3233	.9243	.1203-01	.1405-01	8.401	63.08	625.3
703	93.600	1.0450	71.000	.2762	.3406	.3223	.9243	.1200-01	.1400-01	8.402	62.05	623.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 425

OH84B 60-0 FUSELAGE

(R4UB48)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
675	.5021	7.900	39.94	-.6904-02	100.2	1253.	92.91	.1114-01	.4866	3733.	.3235-03	.7477-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
675	.1709-01	.5706-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
675	46.800	.90000	1054.0	.5396-01	.6541-01	.6076-01	.9361	.9221-03	.1038-02	.6595	5.265	537.4
675	46.800	.95000	1055.0	.1274-01	.1543-01	.1434-01	.9361	.2177-03	.2450-03	.1562	1.398	535.2
675	46.800	.97500	1056.0	.3005-02	.3639-02	.3639-02	.9000	.5136-04	.6219-04	.3695-01	.2956	533.2
675	46.800	1.0300	58.000	.7201-01	.8751-01	.8751-01	.9000	.1231-02	.1496-02	.8703	6.459	545.5
675	46.800	1.0450	59.000	.1415	.1722	.1722	.9000	.2419-02	.2943-02	1.701	12.59	549.6
675	46.800	1.0600	60.000	.1815	.2210	.2210	.9000	.3103-02	.3777-02	2.178	15.60	550.8
675	93.600	.90000	1066.0	.5335-01	.6467-01	.6085-01	.9296	.9118-03	.1040-02	.6528	4.865	536.7
675	93.600	.95000	1067.0	.3492-01	.4233-01	.4004-01	.9270	.5968-03	.6843-03	.4274	3.296	536.5
675	93.600	.97500	1068.0	.1061-01	.1286-01	.1219-01	.9257	.1813-03	.2084-03	.1301	1.039	535.4
675	93.600	1.0150	69.000	.2255-01	.2739-01	.2604-01	.9241	.3853-03	.4450-03	.2730	2.212	544.1
675	93.600	1.0300	70.000	.8848-01	.1076	.1023	.9241	.1512-02	.1748-02	1.065	8.304	548.5
675	93.600	1.0450	71.000	.1469	.1788	.1699	.9241	.2511-02	.2904-02	1.763	13.50	550.5
675	93.600	1.0600	72.000	.1542	.1877	.1784	.9241	.2636-02	.3049-02	1.851	15.22	550.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 428

OH84B 60-0 FUSELAGE

(R4UB48)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
673	1.003	7.940	39.97	-.6929-02	205.6	1264.	92.86	.2211-01	.9759	3751.	.6427-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
673	.2424-01	.4052-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
673	46.800	.90000	1054.0	.5346-01	.6486-01	.6022-01	.9361	.1296-02	.1460-02	.9317	7.411	544.7
673	46.800	.95000	1055.0	.2112-01	.2559-01	.2377-01	.9361	.5118-03	.5761-03	.3700	3.302	540.8
673	46.800	.97500	1056.0	.5714-02	.6920-02	.6920-02	.9000	.1385-03	.1677-03	.1004	.8008	538.8
673	46.800	1.0300	58.000	.2124	.2593	.2593	.9000	.5149-02	.6285-02	3.601	26.47	564.4
673	46.800	1.0450	59.000	.3345	.4097	.4097	.9000	.8108-02	.9930-02	5.583	40.82	575.1
673	46.800	1.0600	60.000	.3411	.4173	.4173	.9000	.8269-02	.1011-01	5.725	40.59	571.3
673	93.600	.90000	1066.0	.5333-01	.6467-01	.6083-01	.9297	.1293-02	.1475-02	.9309	6.915	543.5
673	93.600	.95000	1067.0	.4598-01	.5574-01	.5271-01	.9270	.1114-02	.1278-02	.8039	6.181	542.3
673	93.600	.97500	1068.0	.1684-01	.2041-01	.1935-01	.9257	.4082-03	.4691-03	.2952	2.353	540.6
673	93.600	1.0150	69.000	.7624-01	.9299-01	.8829-01	.9242	.1848-02	.2140-02	1.296	10.40	562.4
673	93.600	1.0300	70.000	.2361	.2888	.2740	.9242	.5722-02	.6642-02	3.956	30.49	572.2
673	93.600	1.0450	71.000	.3388	.4151	.3937	.9242	.8212-02	.9542-02	5.644	42.66	576.4
673	93.600	1.0600	72.000	.3115	.3811	.3615	.9242	.7550-02	.8762-02	5.224	42.51	571.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 427

OH84B 60-0 FUSELAGE

(R4UB4B)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
691	1.993	7.980	39.99	-1.6942-02	434.5	1305.	94.98	.4524-01	2.017	3813.	.1286-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
691	.3504-01	.2875-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
691	46.800	.90000	1054.0	.8842-01	.1075	.9974-01	.9362	.3098-02	.3495-02	2.273	17.84	571.0
691	46.800	.95000	1055.0	.8730-01	.1063	.9852-01	.9362	.3059-02	.3452-02	2.235	19.62	573.9
691	46.800	.97500	1056.0	.6635-01	.8064-01	.8064-01	.9000	.2325-02	.2826-02	1.712	13.45	568.4
691	46.800	1.0300	58.000	.3813	.4698	.4698	.9000	.1336-01	.1646-01	9.251	66.41	612.2
691	46.800	1.0450	59.000	.3612	.4459	.4459	.9000	.1266-01	.1562-01	8.694	62.25	617.7
691	46.800	1.0600	60.000	.3342	.4113	.4113	.9000	.1171-01	.1441-01	8.153	56.74	608.4
691	93.600	.90000	1066.0	.8842-01	.1075	.1010	.9297	.3098-02	.3539-02	2.278	16.70	569.3
691	93.600	.95000	1067.0	.1050	.1277	.1206	.9271	.3678-02	.4226-02	2.694	20.41	572.1
691	93.600	.97500	1068.0	.1057	.1287	.1219	.9258	.3702-02	.4270-02	2.699	21.14	575.7
691	93.600	1.0150	69.000	.3014	.3727	.3524	.9243	.1056-01	.1235-01	7.200	56.10	622.8
691	93.600	1.0300	70.000	.3836	.4748	.4489	.9243	.1344-01	.1573-01	9.134	68.59	625.1
691	93.600	1.0450	71.000	.3762	.4650	.4398	.9243	.1318-01	.1541-01	9.002	66.54	621.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 428

OH84B 60-0 FUSELAGE

(R4UB48)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BOFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
697	2.999	7.990	40.00	-.6947-02	668.9	1322.	96.00	.6908-01	3.087	3838.	.1942-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
697	.4345-01	.2342-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF - R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
697	46.800	.90000	1054.0	.1977	.2424	.2241	.9362	.8589-02	.9735-02	6.155	47.51	605.1
697	46.800	.95000	1055.0	.1885	.2314	.2138	.9362	.8188-02	.9288-02	5.831	50.30	609.5
697	46.800	.97500	1056.0	.1706	.2089	.2089	.9000	.7412-02	.9075-02	5.344	41.34	600.6
697	46.800	1.0300	58.000	.3747	.4637	.4637	.9000	.1628-01	.2015-01	11.20	79.61	633.3
697	46.800	1.0450	59.000	.3507	.4351	.4351	.9000	.1524-01	.1890-01	10.39	73.56	640.0
697	46.800	1.0600	60.000	.3327	.4113	.4113	.9000	.1446-01	.1787-01	10.00	68.90	629.7
697	93.600	.90000	1066.0	.1986	.2431	.2279	.9297	.8628-02	.9903-02	6.227	44.97	600.0
697	93.600	.95000	1067.0	.2149	.2635	.2483	.9271	.9335-02	.1079-01	6.685	49.81	605.5
697	93.600	.97500	1068.0	.2268	.2788	.2633	.9258	.9856-02	.1144-01	6.984	53.69	613.1
697	93.600	1.0150	69.000	.3967	.4967	.4680	.9243	.1724-01	.2034-01	11.32	86.46	664.8
697	93.600	1.0300	70.000	.3742	.4657	.4396	.9243	.1626-01	.1910-01	10.94	81.18	649.0
697	93.600	1.0450	71.000	.3645	.4529	.4277	.9243	.1584-01	.1858-01	10.72	78.34	644.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 429

OH84B 60-0 FUSELAGE

(R4UB49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
677	.5060	7.900	39.96	-.6920-02	101.1	1254.	92.99	.1124-01	.4909	3735.	.3262-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
677	.1717-01	.5684-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
677	46.800	.90000	1054.0	.5089-01	.6167-01	.5729-01	.9361	.8738-03	.9835-03	.6269	5.008	536.2
677	46.800	.95000	1055.0	.1427-01	.1728-01	.1606-01	.9361	.1450-03	.2757-03	.1765	1.581	533.5
677	46.800	.97500	1056.0	.9562-02	.1158-01	.1158-01	.9000	.1642-03	.1988-03	.1182	.9451	533.8
677	46.800	1.0300	58.000	.1430	.1741	.1741	.9000	.2115-02	.2988-02	1.725	12.76	551.2
677	46.800	1.0450	59.000	.2965	.3621	.3621	.9000	.5001-02	.6216-02	3.528	25.98	560.8
677	46.800	1.0600	60.000	.3567	.4356	.4356	.9000	.8111-02	.7479-02	4.240	30.21	561.3
677	93.600	.90000	1066.0	.5514-01	.6680-01	.6286-01	.9296	.9111-03	.1079-02	.6801	5.073	535.3
677	93.600	.95000	1067.0	.2031-01	.2459-01	.2326-01	.9270	.3117-03	.3994-03	.2514	1.943	532.7
677	93.600	.97500	1068.0	.1801-01	.2181-01	.2069-01	.9257	.3092-03	.3552-03	.2224	1.779	534.3
677	93.600	1.0150	69.000	.4776-01	.5811-01	.5521-01	.9242	.8199-03	.9479-03	.5771	4.662	549.8
677	93.600	1.0300	70.000	.1864	.2273	.2158	.9242	.3200-02	.3706-02	2.230	17.32	557.0
677	93.600	1.0450	71.000	.3279	.4006	.3802	.9242	.5629-02	.6527-02	3.888	29.59	563.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.08 BETA = .0000 ELEVON = 5.000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
671	1.007	7.940	39.96	-.1038-01	204.7	1257.	92.34	.2202-01	.9716	3740.	.6435-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
671	.2416-01	.4047-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
671	46.800	.90000	1054.0	.5487-01	.6665-01	.6185-01	.9361	.1326-02	.1494-02	.9427	7.495	545.6
671	46.800	.95000	1055.0	.2001-01	.2428-01	.2255-01	.9361	.4836-03	.5447-03	.3456	3.083	542.0
671	46.800	.97500	1056.0	.1970-01	.2391-01	.2391-01	.9000	.4761-03	.5777-03	.3401	2.708	542.3
671	46.800	1.0300	58.000	.4140	.5087	.5087	.9000	.1000-01	.1229-01	6.752	49.21	581.7
671	46.800	1.0450	59.000	.5024	.6202	.6202	.9000	.1214-01	.1499-01	8.033	58.16	594.9
671	46.800	1.0600	60.000	.4519	.5559	.5559	.9000	.1092-01	.1343-01	7.337	51.67	584.7
671	93.600	.90000	1066.0	.5355-01	.6503-01	.6115-01	.9296	.1294-02	.1477-02	.9214	6.840	544.6
671	93.600	.95000	1067.0	.2731-01	.3312-01	.3132-01	.9270	.6598-03	.7568-03	.4721	3.632	541.1
671	93.600	.97500	1068.0	.2839-01	.3447-01	.3267-01	.9257	.6859-03	.7893-03	.4887	3.888	544.2
671	93.600	1.0150	69.000	.1691	.2075	.1967	.9242	.4086-02	.4753-02	2.776	22.11	577.4
671	93.600	1.0200	70.000	.4614	.5697	.5391	.9242	.1115-01	.1303-01	7.365	56.10	596.0
671	93.600	1.0450	71.000	.5123	.6329	.5988	.9242	.1238-01	.1447-01	8.167	61.11	596.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
693	2.000	7.980	40.00	-.1042-01	434.5	1302.	94.76	.4523-01	2.016	3808.	.1288-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO. REF(R) =.0175
693	.3502-01	.2871-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
693	46.800	.90000	1054.0	.8527-01	.1038	.9621-01	.9362	.2986-02	.3369-02	2.181	17.12	571.3
693	46.800	.95000	1055.0	.8454-01	.1029	.9539-01	.9362	.2961-02	.3340-02	2.162	19.00	571.5
693	46.800	.97500	1056.0	.6857-01	.8334-01	.8334-01	.9000	.2401-02	.2919-02	1.763	13.86	567.5
693	46.800	1.0300	58.000	.5077	.6300	.6300	.9000	.1778-01	.2206-01	11.92	84.80	631.1
693	46.800	1.0450	59.000	.4630	.5753	.5753	.9000	.1621-01	.2015-01	10.81	76.74	635.0
693	46.800	1.0600	60.000	.4254	.5262	.5262	.9000	.1490-01	.1843-01	10.12	69.96	622.4
693	93.600	.90000	1066.0	.9016-01	.1096	.1030	.9297	.3157-02	.3607-02	2.316	16.99	568.2
693	93.600	.95000	1067.0	.1051	.1279	.1208	.9271	.3681-02	.4230-02	2.694	20.43	569.9
693	93.600	.97500	1068.0	.1013	.1233	.1167	.9258	.3546-02	.4088-02	2.586	20.28	572.5
693	93.600	1.0150	69.000	.4367	.5459	.5146	.9243	.1529-01	.1802-01	9.959	76.56	650.5
693	93.600	1.0300	70.000	.5103	.6373	.6010	.9243	.1787-01	.2105-01	11.68	86.71	648.3
693	93.600	1.0450	71.000	.4791	.5963	.5629	.9243	.1678-01	.1971-01	11.11	81.40	639.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 432

OH84B 60-0 FUSELAGE

(R4UB49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 23.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
695	3.030	7.990	40.02	-6.6963-02	669.0	1313.	95.34	.6909-01	3.087	3825.	.1956-02	.7672-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
695	.4340-01	.2332-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
695	46.800	.90000	1054.0	.1978	.2427	.2243	.9363	.8584-02	.9733-02	6.085	47.00	603.8
695	46.800	.95000	1055.0	.1908	.2346	.2166	.9363	.8282-02	.9399-02	5.831	50.32	608.7
695	46.800	.97500	1056.0	.1732	.2122	.2122	.9000	.7516-02	.9209-02	5.364	41.53	599.0
695	46.800	1.0300	58.000	.4797	.6002	.6002	.9000	.2082-01	.2605-01	13.61	95.54	658.9
695	46.800	1.0450	59.000	.4437	.5559	.5559	.9000	.1925-01	.2412-01	12.52	87.74	662.4
695	46.800	1.0600	60.000	.4147	.5170	.5170	.9000	.1800-01	.2244-01	11.94	81.47	648.3
695	93.600	.90000	1066.0	.2024	.2480	.2324	.9298	.8783-02	.1009-01	6.268	45.29	599.1
695	93.600	.95000	1067.0	.2181	.2678	.2522	.9272	.9465-02	.1094-01	6.697	49.91	605.1
695	93.600	.97500	1068.0	.2294	.2823	.2664	.9258	.9955-02	.1156-01	6.970	53.60	612.5
695	93.600	1.0150	69.000	.4832	.6120	.5747	.9243	.2097-01	.2494-01	13.08	98.69	689.1
695	93.600	1.0300	70.000	.4722	.5943	.5591	.9243	.2049-01	.2426-01	13.10	96.08	673.6
695	93.600	1.0450	71.000	.4584	.5756	.5419	.9243	.1989-01	.2352-01	12.82	92.70	668.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 433

OH84B 60-0 FUSELAGE

(R4UB50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
767	.5029	7.900	39.99	-.3466-02	100.1	1251.	92.77	.1113-01	.4863	3730.	.3238-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
767	.1708-01	.5703-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDY DEG. R /SEC	TW DEG. R
767	46.800	.90000	1054.0	.4687-01	.5689-01	.5381-01	.9362	.8006-03	.9019-03	.5689	4.535	540.1
767	46.800	.95000	1055.0	.3980-01	.4830-01	.4494-01	.9362	.6798-03	.7658-03	.4831	4.313	540.0
767	46.800	.97500	1056.0	.2742-01	.3325-01	.3325-01	.9000	.4683-03	.5679-03	.3340	2.666	537.5
767	46.800	1.0450	59.000	.2615-01	.3170-01	.3170-01	.9000	.4466-03	.5415-03	.3189	2.377	536.6
767	46.800	1.0600	60.000	.2542-01	.3082-01	.3082-01	.9000	.4341-03	.5264-03	.3098	2.234	537.1
767	93.600	.90000	1066.0	.5459-01	.6624-01	.6229-01	.9297	.9323-03	.1064-02	.6629	4.934	539.6
767	93.600	.95000	1067.0	.5126-01	.6220-01	.5881-01	.9271	.8755-03	.1004-02	.6226	4.794	539.5
767	93.600	.97500	1068.0	.5029-01	.6104-01	.5785-01	.9258	.8589-03	.9881-03	.6099	4.861	540.6
767	93.600	1.0150	69.000	.3092-01	.3749-01	.3565-01	.9242	.5281-03	.6089-03	.3769	3.064	536.9
767	93.600	1.0300	70.000	.3745-01	.4547-01	.4319-01	.9242	.6397-03	.7377-03	.4560	3.576	537.8
767	93.600	1.0450	71.000	.4128-01	.5007-01	.4762-01	.9242	.7050-03	.8133-03	.5020	3.867	538.6
767	93.600	1.0600	72.000	.5127-01	.6212-01	.5909-01	.9242	.8756-03	.1009-02	.6265	5.193	535.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 434

OH84B 60-0 FUSELAGE

(R4UB50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
757	1.043	7.940	39.99	-4.654-06	214.1	1265.	92.93	.2302-01	1.016	3752.	.6687-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
757	.2474-01	.3973-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
757	46.800	.90000	1054.0	.4938-01	.6001-01	.5567-01	.9362	.1221-02	.1377-02	.8722	6.917	550.6
757	46.800	.95000	1055.0	.4101-01	.4984-01	.4624-01	.9362	.1014-02	.1144-02	.7241	6.430	550.8
757	46.800	.97500	1056.0	.2688-01	.3263-01	.3263-01	.9000	.6649-03	.8072-03	.4769	3.788	547.4
757	46.800	1.0300	58.000	.3358-01	.4070-01	.4070-01	.9000	.8307-03	.1007-02	.6006	4.465	541.7
757	46.800	1.0450	59.000	.2934-01	.3558-01	.3558-01	.9000	.7257-03	.8800-03	.5233	3.887	543.6
757	46.800	1.0600	60.000	.2885-01	.3498-01	.3498-01	.9000	.7137-03	.8653-03	.5150	3.703	543.1
757	93.600	.90000	1066.0	.5289-01	.6426-01	.6040-01	.9297	.1308-02	.1494-02	.9356	6.928	549.6
757	93.600	.95000	1067.0	.5154-01	.6263-01	.5918-01	.9271	.1275-02	.1464-02	.9111	6.978	550.1
757	93.600	.97500	1068.0	.5189-01	.6308-01	.5976-01	.9258	.1284-02	.1478-02	.9148	7.250	551.9
757	93.600	1.0150	69.000	.3854-01	.4677-01	.4446-01	.9243	.9533-03	.1100-02	.6853	5.547	545.8
757	93.600	1.0300	70.000	.4547-01	.5517-01	.5245-01	.9243	.1125-02	.1298-02	.8087	6.317	545.6
757	93.600	1.0450	71.000	.4836-01	.5868-01	.5579-01	.9243	.1196-02	.1380-02	.8598	6.599	545.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
755	1.966	7.980	40.06	-4.684-06	429.7	1307.	95.13	.4474-01	1.994	3815.	.1269-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
755	.3485-01	.2894-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
755	46.800	.90000	1054.0	.8839-01	.1074	.9964-01	.9363	.3080-02	.3473-02	2.270	17.83	569.8
755	46.800	.95000	1055.0	.8838-01	.1075	.9966-01	.9363	.3080-02	.3473-02	2.264	19.90	571.7
755	46.800	.97500	1056.0	.7139-01	.8672-01	.8672-01	.9000	.2488-02	.3022-02	1.839	14.46	567.6
755	46.800	1.0300	58.000	.1102	.1335	.1335	.9000	.3840-02	.4654-02	2.869	21.14	559.6
755	46.800	1.0450	59.000	.1036	.1258	.1258	.9000	.3610-02	.4383-02	2.676	19.66	565.6
755	46.800	1.0600	60.000	.1078	.1309	.1309	.9000	.3758-02	.4561-02	2.788	19.83	564.8
755	93.600	.90000	1066.0	.8664-01	.1052	.9891-01	.9298	.3019-02	.3447-02	2.231	16.38	567.6
755	93.600	.95000	1067.0	.9995-01	.1215	.1148	.9272	.3483-02	.4000-02	2.564	19.44	570.5
755	93.600	.97500	1068.0	.1093	.1331	.1260	.9259	.3811-02	.4393-02	2.785	21.81	575.8
755	93.600	1.0150	69.000	.8634-01	.1049	.9969-01	.9244	.3009-02	.3475-02	2.219	17.75	569.3
755	93.600	1.0300	70.000	.9816-01	.1192	.1133	.9244	.3421-02	.3948-02	2.532	19.57	566.6
755	93.600	1.0450	71.000	.1038	.1261	.1198	.9244	.3618-02	.4176-02	2.677	20.33	567.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 436

OH84B 60-0 FUSELAGE

(R4UB50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
745	3.041	7.990	40.06	-.3495-02	670.5	1312.	95.27	.6924-01	3.094	3823.	.1962-02	.7666-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
745	.4344-01	.2328-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
745	46.800	.90000	1054.0	.2074	.2548	.2353	.9363	.9012-02	.1022-01	6.362	49.09	605.7
745	46.800	.95000	1055.0	.1937	.2382	.2198	.9363	.8413-02	.9550-02	5.901	50.88	610.2
745	46.800	.97500	1056.0	.1753	.2149	.2149	.9000	.7614-02	.9337-02	5.411	41.85	601.0
745	46.800	1.0300	58.000	.1848	.2254	.2254	.9000	.8026-02	.9794-02	5.834	42.45	584.8
745	46.800	1.0450	59.000	.1796	.2195	.2195	.9000	.7802-02	.9535-02	5.630	40.86	590.1
745	46.800	1.0600	60.000	.1636	.1998	.1998	.9000	.7109-02	.8680-02	5.152	36.24	587.0
745	93.600	.90000	1066.0	.2018	.2474	.2318	.9298	.8765-02	.1007-01	6.229	44.96	601.0
745	93.600	.95000	1067.0	.2223	.2733	.2572	.9272	.9659-02	.1117-01	6.797	50.58	608.0
745	93.600	.97500	1068.0	.2350	.2895	.2731	.9259	.1021-01	.1186-01	7.110	54.61	615.2
745	93.600	1.0150	69.000	.1785	.2188	.2073	.9244	.7755-02	.9007-02	5.528	43.58	598.8
745	93.600	1.0300	70.000	.1820	.2227	.2112	.9244	.7907-02	.9173-02	5.679	43.31	593.4
745	93.600	1.0450	71.000	.1832	.2241	.2126	.9244	.7961-02	.9234-02	5.723	42.91	592.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BOFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
765	.5049	7.900	39.98	-.3466-02	100.4	1250.	92.69	.1116-01	.4875	3729.	.3249-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
765	.1710-01	.5692-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
765	46.800	.90000	1054.0	.5065-01	.6143-01	.5704-01	.9362	.8660-03	.9753-03	.6167	4.923	537.5
765	46.800	.95000	1055.0	.1329-01	.1609-01	.1495-01	.9362	.2272-03	.2557-03	.1628	1.458	533.2
765	46.800	.97500	1056.0	.3568-02	.4322-02	.4322-02	.9000	.6100-04	.7390-04	.4368-01	.3494	533.7
765	46.800	1.0300	58.000	.6609-01	.8037-01	.8037-01	.9000	.1130-02	.1374-02	.7947	5.895	546.4
765	46.800	1.0450	59.000	.1362	.1659	.1659	.9000	.2330-02	.2837-02	1.628	12.05	550.9
765	46.800	1.0600	60.000	.1840	.2242	.2242	.9000	.3146-02	.3834-02	2.191	15.68	553.2
765	93.600	.90000	1066.0	.5259-01	.6375-01	.5998-01	.9297	.8993-03	.1026-02	.6419	4.787	535.9
765	93.600	.95000	1067.0	.3072-01	.3723-01	.3521-01	.9271	.5253-03	.6021-03	.3754	2.897	535.0
765	93.600	.97500	1068.0	.1096-01	.1328-01	.1259-01	.9258	.1874-03	.2154-03	.1339	1.070	535.3
765	93.600	1.0150	69.000	.2129-01	.2588-01	.2460-01	.9242	.3640-03	.4206-03	.2560	2.072	546.3
765	93.600	1.0300	70.000	.8261-01	.1006	.9554-01	.9242	.1413-02	.1634-02	.9883	7.702	550.0
765	93.600	1.0450	71.000	.1399	.1704	.1618	.9242	.2392-02	.2767-02	1.669	12.77	552.0
765	93.600	1.0600	72.000	.1641	.1991	.1893	.9242	.2806-02	.3237-02	1.998	16.53	537.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BOFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
759	1.001	7.940	39.99	-.4655-06	206.7	1270.	93.30	.2224-01	.9813	3760.	.6433-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
759	.2433-01	.4053-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
759	46.800	.90000	1054.0	.5145-01	.6245-01	.5796-01	.9362	.1251-02	.1410-02	.9018	7.157	549.1
759	46.800	.95000	1055.0	.1636-01	.1983-01	.1841-01	.9362	.3979-03	.4480-03	.2884	2.569	544.9
759	46.800	.97500	1056.0	.5558-02	.6733-02	.6733-02	.9000	.1352-03	.1638-03	.9838-01	.7835	542.1
759	46.800	1.0300	58.000	.1933	.2359	.2359	.9000	.4703-02	.5739-02	3.309	24.30	566.1
759	46.800	1.0450	59.000	.3056	.3745	.3745	.9000	.7434-02	.9109-02	5.132	37.45	579.3
759	46.800	1.0600	60.000	.3405	.4166	.4166	.9000	.8282-02	.1013-01	5.752	40.70	575.2
759	93.600	.90000	1066.0	.5454-01	.6618-01	.6224-01	.9297	.1327-02	.1514-02	.9573	7.095	548.1
759	93.600	.95000	1067.0	.4113-01	.4969-01	.4717-01	.9271	.1001-02	.1147-02	.7233	5.549	546.8
759	93.600	.97500	1068.0	.1598-01	.1937-01	.1837-01	.9258	.3887-03	.4468-03	.2815	2.238	545.4
759	93.600	1.0150	69.000	.7672-01	.9357-01	.8884-01	.9243	.1866-02	.2161-02	1.316	10.55	564.5
759	93.600	1.0300	70.000	.2234	.2733	.2593	.9243	.5436-02	.6307-02	3.783	29.13	573.8
759	93.600	1.0450	71.000	.3258	.3991	.3785	.9243	.7926-02	.9206-02	5.478	41.36	578.5
759	93.600	1.0600	72.000	.2925	.3582	.3397	.9243	.7114-02	.8263-02	4.921	39.92	577.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
753	2.020	7.980	40.04	-4678-06	434.4	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
753	.3498-01	.2859-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
753	46.800	.90000	1054.0	.9754-01	.1188	.1101	.9363	.3412-02	.3850-02	2.468	19.39	569.3
753	46.800	.95000	1055.0	.9175-01	.1118	.1036	.9363	.3209-02	.3623-02	2.312	20.31	572.2
753	46.800	.97500	1056.0	.7520-01	.9152-01	.9152-01	.9000	.2630-02	.3201-02	1.906	14.98	568.1
753	46.800	1.0300	58.000	.1658	.2025	.2025	.9000	.5799-02	.7081-02	4.139	30.20	579.0
753	46.800	1.0450	59.000	.1825	.2232	.2232	.9000	.6383-02	.7806-02	4.528	32.97	583.3
753	46.800	1.0600	60.000	.1831	.2236	.2236	.9000	.6403-02	.7822-02	4.562	32.19	580.2
753	93.600	.90000	1066.0	.9056-01	.1102	.1035	.9298	.3168-02	.3621-02	2.296	16.84	567.9
753	93.600	.95000	1067.0	.1045	.1273	.1201	.9272	.3654-02	.4202-02	2.638	19.99	570.8
753	93.600	.97500	1068.0	.1142	.1394	.1318	.9259	.3995-02	.4612-02	2.864	22.42	575.9
753	93.600	1.0150	69.000	.1284	.1569	.1489	.9244	.4490-02	.5206-02	3.187	25.33	582.7
753	93.600	1.0300	70.000	.1458	.1782	.1690	.9244	.5101-02	.5912-02	3.634	27.90	580.2
753	93.600	1.0450	71.000	.1564	.1911	.1813	.9244	.5470-02	.6341-02	3.895	29.38	580.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 440

OH84B 60-0 FUSELAGE

(R4UB51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
747	2.979	7.990	40.06	-1.4686-06	660.0	1316.	95.56	.6816-01	3.046	3829.	.1925-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
747	.4312-01	.2351-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
747	46.800	.90000	1054.0	.2009	.2465	.2277	.9363	.8663-02	.9820-02	6.159	47.55	604.7
747	46.800	.95000	1055.0	.1885	.2316	.2139	.9363	.8129-02	.9222-02	5.743	49.55	609.1
747	46.800	.97500	1056.0	.1612	.1976	.1976	.9000	.6951-02	.8522-02	4.963	38.37	601.8
747	46.800	1.0300	58.000	.2006	.2448	.2448	.9000	.8650-02	.1056-01	6.297	45.76	587.6
747	46.800	1.0450	59.000	.1958	.2395	.2395	.9000	.8444-02	.1033-01	6.087	44.07	594.8
747	46.800	1.0600	60.000	.1873	.2288	.2288	.9000	.8076-02	.9865-02	5.860	41.16	590.1
747	46.800	.90000	1066.0	.1955	.2396	.2245	.9298	.8432-02	.9681-02	6.031	43.55	600.3
747	93.600	.95000	1067.0	.2157	.2649	.2494	.9272	.9303-02	.1076-01	6.594	49.09	606.9
747	93.600	.97500	1068.0	.2293	.2822	.2663	.9259	.9888-02	.1148-01	6.941	53.35	613.7
747	93.600	1.0150	69.000	.1949	.2390	.2265	.9244	.8403-02	.9767-02	5.986	47.08	603.4
747	93.600	1.0300	70.000	.2023	.2475	.2347	.9244	.8725-02	.1012-01	6.285	47.88	595.3
747	93.600	1.0450	71.000	.2000	.2450	.2322	.9244	.8626-02	.1001-01	6.189	46.28	598.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BOFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
763	.4981	7.900	39.97	-.3462-02	99.31	1252.	92.84	.1104-01	.4822	3732.	.3209-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
763	.1701-01	.5729-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
763	46.800	.90000	1054.0	.4236-01	.5142-01	.4773-01	.9361	.7206-03	.8119-03	.5123	4.083	540.7
763	46.800	.95000	1055.0	.1477-01	.1792-01	.1664-01	.9361	.2512-03	.2830-03	.1790	1.599	539.2
763	46.800	.97500	1056.0	.1057-01	.1281-01	.1281-01	.9000	.1797-03	.2179-03	.1283	1.024	537.8
763	46.800	1.0300	58.000	.1389	.1694	.1694	.9000	.2363-02	.2881-02	1.644	12.14	555.8
763	46.800	1.0450	59.000	.3005	.3676	.3676	.9000	.5112-02	.6253-02	3.505	25.75	565.9
763	46.800	1.0600	60.000	.3751	.4591	.4591	.9000	.6380-02	.7809-02	4.363	30.99	567.7
763	93.600	.90000	1066.0	.5166-01	.6269-01	.5896-01	.9296	.8787-03	.1003-02	.6248	4.648	540.6
763	93.600	.95000	1067.0	.1551-01	.1881-01	.1778-01	.9270	.2638-03	.3025-03	.1882	1.450	538.2
763	93.600	.97500	1068.0	.1788-01	.2170-01	.2057-01	.9257	.3042-03	.3499-03	.2165	1.726	539.9
763	93.600	1.0150	69.000	.4561-01	.5559-01	.5280-01	.9242	.7759-03	.8981-03	.5412	4.362	554.2
763	93.600	1.0300	70.000	.1860	.2272	.2157	.9242	.3164-02	.3668-02	2.183	16.92	561.7
763	93.600	1.0450	71.000	.3425	.4195	.3979	.9242	.5826-02	.6768-02	3.974	30.14	569.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 23.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
761	1.006	7.940	39.99	-4652-06	206.4	1265.	92.93	.2220-01	.9799	3752.	.6449-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
761	.2429-01	.4046-01

TEST DATA

RUN NUMBER	YO	X8/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
761	46.800	.90000	1054.0	.4937-01	.5998-01	.5565-01	.9362	.1199-02	.1352-02	.8576	6.804	549.6
761	46.800	.95000	1055.0	.1923-01	.2335-01	.2167-01	.9362	.4672-03	.5264-03	.3355	2.986	546.7
761	46.800	.97500	1056.0	.2031-01	.2464-01	.2464-01	.9000	.4933-03	.5987-03	.3544	2.817	546.1
761	46.800	1.0300	58.000	.3975	.4890	.4890	.9000	.9656-02	.1188-01	6.527	47.40	588.7
761	46.800	1.0450	59.000	.5017	.6198	.6198	.9000	.1219-01	.1506-01	8.086	58.36	601.2
761	46.800	1.0600	60.000	.4564	.5620	.5620	.9000	.1109-01	.1365-01	7.457	52.32	592.0
761	93.600	.90000	1066.0	.5231-01	.6354-01	.5973-01	.9297	.1271-02	.1451-02	.9091	6.734	549.2
761	93.600	.95000	1067.0	.2258-01	.2740-01	.2591-01	.9271	.5486-03	.6293-03	.3944	3.027	545.8
761	93.600	.97500	1068.0	.2864-01	.3479-01	.3297-01	.9258	.6957-03	.8008-03	.4975	3.947	549.6
761	93.600	1.0150	69.000	.1666	.2045	.1938	.9243	.4048-02	.4708-02	2.765	21.99	581.5
761	93.600	1.0300	70.000	.4525	.5590	.5288	.9243	.1099-01	.1285-01	7.295	55.43	601.0
761	93.600	1.0450	71.000	.5172	.6397	.6050	.9243	.1256-01	.1470-01	8.299	61.88	604.1
761	93.600	1.0600	72.000	.5867	.7069	.6734	.9243	.1425-01	.1636-01	10.61	88.56	520.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UB52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
751	1.997	7.980	40.06	-4.685-06	435.2	1309.	95.27	.4531-01	2.020	3818.	.1284-02	.7667-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
751	.3508-01	.2878-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
751	46.800	.90000	1054.0	.8680-01	.1055	.9783-01	.9363	.3045-02	.3432-02	2.249	17.66	570.0
751	46.800	.95000	1055.0	.8070-01	.9813-01	.9099-01	.9363	.2831-02	.3192-02	2.087	18.34	571.7
751	46.800	.97500	1056.0	.7177-01	.8719-01	.8719-01	.9000	.2518-02	.3059-02	1.863	14.64	568.7
751	46.800	1.0300	58.000	.5192	.6445	.6445	.9000	.1822-01	.2261-01	12.27	87.12	635.1
751	46.800	1.0450	59.000	.4772	.5932	.5932	.9000	.1674-01	.2081-01	11.20	79.34	639.6
751	46.800	1.0600	60.000	.4377	.5416	.5416	.9000	.1536-01	.1900-01	10.47	72.22	626.8
751	93.600	.90000	1066.0	.8783-01	.1067	.1003	.9298	.3082-02	.3518-02	2.280	16.73	568.7
751	93.600	.95000	1067.0	.9975-01	.1213	.1145	.9272	.3500-02	.4019-02	2.581	19.55	571.3
751	93.600	.97500	1068.0	.1026	.1249	.1183	.9259	.3601-02	.4149-02	2.640	20.68	575.5
751	93.600	1.0150	69.000	.4478	.5597	.5275	.9244	.1571-01	.1851-01	10.29	78.96	653.9
751	93.600	1.0300	70.000	.5217	.6517	.6143	.9244	.1830-01	.2155-01	12.00	88.95	652.7
751	93.600	1.0450	71.000	.4906	.6109	.5764	.9244	.1721-01	.2022-01	11.43	83.58	644.5

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OH848 MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH848 60-0 FUSELAGE

(R40852)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
749	2.958	7.990	40.06	-.4686-06	659.9	1322.	96.00	.6815-01	3.045	3838.	.1916-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
749	.4315-01	.2358-01

TEST DATA

RUN NUMBER	YO	XB/LB	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
749	46.800	.90000	1054.0	.1927	.2363	.2184	.9363	.8317-02	.9423-02	5.962	46.02	604.9
749	46.800	.95000	1055.0	.1865	.2290	.2115	.9363	.8048-02	.9127-02	5.725	49.37	610.3
749	46.800	.97500	1056.0	.1595	.1954	.1954	.9000	.6881-02	.8433-02	4.940	38.16	603.7
749	46.800	1.0300	58.000	.4827	.6030	.6030	.9000	.2083-01	.2602-01	13.80	96.88	659.0
749	46.800	1.0450	59.000	.4518	.5659	.5659	.9000	.1949-01	.2442-01	12.78	89.35	666.3
749	46.800	1.0600	60.000	.4257	.5307	.5307	.9000	.1837-01	.2290-01	12.27	83.53	653.8
749	93.600	.90000	1066.0	.1929	.2362	.2213	.9298	.8322-02	.9552-02	5.996	43.28	601.2
749	93.600	.95000	1067.0	.2145	.2633	.2480	.9272	.9258-02	.1070-01	6.605	49.15	608.2
749	93.600	.97500	1068.0	.2259	.2779	.2622	.9259	.9747-02	.1132-01	6.881	52.83	615.7
749	93.600	1.0150	69.000	.4786	.6059	.5690	.9244	.2066-01	.2455-01	13.00	97.93	692.5
749	93.600	1.0300	70.000	.4824	.6073	.5712	.9244	.2082-01	.2465-01	13.37	97.83	679.3
749	93.600	1.0450	71.000	.4686	.5886	.5540	.9244	.2022-01	.2391-01	13.10	94.44	673.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC01)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 25.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = 49.00

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
5	3.644	8.000	24.96	.8346-02	847.3	1356.	98.24	.8678-01	3.888	3887.	.2384-02	.7905-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
5	.4898-01	.2119-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
5	.76000-01	350.00	206.00	.6523-01	.7878-01	.7878-01	.9000	.3195-02	.3858-02	2.518	15.84	567.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC02)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
157	2.008	7.980	29.94	-4.034	434.8	1299.	94.54	.4527-01	2.018	3804.	.1292-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
157	.3502-01	.2866-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
157	.76000-01	350.00	206.00	.7908-01	.9574-01	.9574-01	.9000	.2769-02	.3353-02	2.067	13.10	552.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC02)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
117	3.002	7.990	29.95	-4.030	671.8	1325.	96.21	.6938-01	3.100	3842.	.1946-02	.7742-07
118	3.023	7.990	29.94	-4.046	673.4	1321.	95.92	.6954-01	3.108	3836.	.1957-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
117	.4356-01	.2340-01
118	.4359-01	.2333-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
118	.76000-01	350.00	206.00	.7927-01	.9579-01	.9579-01	.9000	.3455-02	.4175-02	2.645	16.74	555.1
117	.97500	381.20	1288.0	.1253-01	.1505-01	.1505-01	.9000	.5460-03	.6557-03	.4324	3.229	532.8

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC02)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
130	3.691	8.000	29.96	-4.050	853.4	1351.	97.87	.8742-01	3.916	3880.	.2411-02	.7876-07
131	3.694	8.000	29.96	-4.050	855.1	1352.	97.95	.8759-01	3.924	3881.	.2414-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
130	.4912-01	.2107-01
131	.4918-01	.2106-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
131	.76000-01	350.00	206.00	.7957-01	.9602-01	.9602-01	.9000	.3913-02	.4722-02	3.087	19.46	562.8
130	.97500	381.20	1288.0	.1074-01	.1288-01	.1288-01	.9000	.5275-03	.6327-03	.4283	3.190	538.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 449

OH84B 60-0 FUSELAGE

(R4UC03)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
153	1.989	7.980	29.95	-2.020	434.7	1307.	95.13	.4526-01	2.017	3815.	.1284-02	.7655-07
154	2.002	7.980	29.96	-2.027	435.4	1303.	94.84	.4533-01	2.021	3810.	.1290-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
153	.3505-01	.2877-01
154	.3506-01	.2869-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
154	.76000-01	350.00	206.00	.7131-01	.8628-01	.8628-01	.9000	.2500-02	.3025-02	1.877	11.90	552.0
153	.97500	381.20	1288.0	.2085-02	.2505-02	.2505-02	.9000	.7307-04	.8779-04	.5694-01	.4265	527.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 450

OH84B 60-0 FUSELAGE

(RUC03)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
114	3.016	7.990	29.95	-2.018	673.4	1323.	96.07	.6954-01	3.108	3839.	.1954-02	.7731-07
115	3.006	7.990	29.95	-2.017	672.0	1324.	96.14	.6940-01	3.101	3841.	.1948-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
114	.4360-01	.2335-01
115	.4356-01	.2339-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
115	.76000-01	350.00	206.00	.7204-01	.8701-01	.8701-01	.9000	.3138-02	.3790-02	2.414	15.29	554.4
114	.97500	381.20	1288.0	.6260-02	.7512-02	.7512-02	.9000	.2729-03	.3275-03	.2166	1.621	528.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC03)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
127	3.689	8.000	29.96	-2.010	854.0	1352.	97.95	.8748-01	3.919	3881.	.2411-02	.7882-07
128	3.686	8.000	29.95	-2.016	854.2	1353.	98.02	.8750-01	3.920	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
127	.4915-01	.2107-01
128	.4916-01	.2108-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
128	.76000-01	350.00	206.00	.7139-01	.8603-01	.8603-01	.9000	.3509-02	.4229-02	2.789	17.63	558.0
127	.97500	381.20	1288.0	.6880-02	.8245-02	.8245-02	.9000	.3381-03	.4052-03	.2761	2.060	535.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC04)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
150	1.973	7.980	29.94	-1.005	435.5	1316.	95.78	.4534-01	2.021	3829.	.1278-02	.7708-07
151	1.981	7.980	29.94	-1.004	435.3	1312.	95.49	.4532-01	2.020	3823.	.1281-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
150	.3513-01	.2886-01
151	.3510-01	.2882-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TH DEG. R
151	.76000-01	350.00	206.00	.6735-01	.8133-01	.8133-01	.9000	.2364-02	.2855-02	1.803	11.45	548.8
150	.97500	381.20	1288.0	.6092-03	.7312-03	.7312-03	.9000	.2140-04	.2569-04	.1688-01	.1264	527.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC04)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
111	2.999	7.990	29.94	-.9974	671.3	1325.	96.21	.6932-01	3.098	3842.	.1945-02	.7742-07
112	2.995	7.990	29.94	-1.000	673.3	1329.	96.50	.6953-01	3.107	3848.	.1945-02	.7766-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
111	.4354-01	.2341-01
112	.4363-01	.2342-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
112	.76000-01	350.00	206.00	.6814-01	.8220-01	.8220-01	.9000	.2973-02	.3586-02	2.310	14.65	551.7
111	.97500	381.20	1288.0	.1589-02	.1905-02	.1905-02	.9000	.6917-04	.8296-04	.5514-01	.4129	527.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC04)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
123	3.686	8.000	29.95	-.9857	853.2	1352.	97.95	.8740-01	3.915	3881.	.2408-02	.7882-07
125	3.687	8.000	29.96	-.9824	854.5	1353.	98.02	.8753-01	3.921	3883.	.2410-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
123	.4912-01	.2108-01
125	.4917-01	.2107-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
125	.76000-01	350.00	206.00	.6769-01	.8154-01	.8154-01	.9000	.3328-02	.4009-02	2.651	16.77	556.1
123	.97500	381.20	1288.0	.2411-02	.2887-02	.2887-02	.9000	.1184-03	.1418-03	.9715-01	.7260	531.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
11	.5125	7.900	29.95	.4910-02	100.6	1239.	91.88	.1118-01	.4884	3712.	.3284-03	.7393-07
12	.5316	7.900	29.95	.7364-02	104.3	1239.	91.88	.1159-01	.5065	3712.	.3406-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
11	.1709-01	.5657-01
12	.1740-01	.5555-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
12	.76000-01	350.00	206.00	.6532-01	.7950-01	.7950-01	.9000	.1137-02	.1383-02	.7896	5.026	544.1
11	.97500	381.20	1288.0	.1393-04	.1691-04	.1691-04	.9000	.2380-06	.2890-06	.1672-03	.1246-02	536.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
48	1.981	7.980	29.96	.2453-02	434.4	1310.	95.35	.4522-01	2.016	3820.	.1280-02	.7672-07
49	2.016	7.980	29.96	-.2452-02	435.6	1297.	94.40	.4535-01	2.021	3801.	.1297-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
48	.3505-01	.2882-01
49	.3504-01	.2861-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
49	.76000-01	350.00	206.00	.6419-01	.7761-01	.7761-01	.9000	.2249-02	.2719-02	1.687	10.72	546.6
48	.97500	381.20	1288.0	.6637-03	.7983-03	.7983-03	.9000	.2327-04	.2798-04	.1807-01	.1350	532.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
77	3.028	7.990	29.98	-.2446-02	670.1	1315.	95.49	.6920-01	3.092	3827.	.1956-02	.7684-07
78	3.052	7.990	29.97	-.2449-02	670.0	1308.	94.98	.6919-01	3.092	3817.	.1966-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
77	.4345-01	.2332-01
78	.4340-01	.2325-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
78	.76000-01	350.00	206.00	.6461-01	.7814-01	.7814-01	.9000	.2804-02	.3391-02	2.119	13.43	552.2
77	.97500	381.20	1288.0	.5928-03	.7115-03	.7115-03	.9000	.2575-04	.3091-04	.2028-01	.1519	527.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC06)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
120	3.698	8.000	29.97	.7342-02	853.1	1349.	97.73	.8738-01	3.915	3877.	.2413-02	.7864-07
121	3.693	8.000	29.97	.4899-02	853.8	1351.	97.87	.8746-01	3.918	3880.	.2412-02	.7876-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
120	.4910-01	.2105-01
121	.4913-01	.2106-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
121	.76000-01	350.00	206.00	.6377-01	.7676-01	.7676-01	.9000	.3133-02	.3771-02	2.502	15.86	552.2
120	.97500	381.20	1288.0	.8813-03	.1055-02	.1055-02	.9000	.4327-04	.5181-04	.3542-01	.2648	530.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC07)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
148	2.006	7.980	29.97	-.4892-02	434.9	1300.	94.62	.4528-01	2.018	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
148	.3503-01	.2867-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
148	.76000-01	350.00	206.00	.6339-01	.7668-01	.7668-01	.9000	.2221-02	.2686-02	1.666	10.57	549.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC08)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
51	2.021	7.980	29.94	1.035	434.5	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07
52	1.990	7.980	29.94	1.035	434.8	1307.	95.13	.4526-01	2.018	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
51	.3498-01	.2859-01
52	.3506-01	.2877-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
52	.76000-01	350.00	206.00	.6098-01	.7359-01	.7359-01	.9000	.2138-02	.2580-02	1.630	10.37	544.4
51	.97500	381.20	1288.0	.3623-03	.4365-03	.4365-03	.9000	.1267-04	.1527-04	.9639-02	.7201-01	532.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC10)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 2.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
55	2.000	7.980	29.95	2.036	435.1	1303.	94.84	.4530-01	2.019	3810.	.1289-02	.7631-07
56	1.998	7.980	29.94	2.039	435.1	1304.	94.91	.4530-01	2.019	3811.	.1288-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
55	.3505-01	.2870-01
56	.3505-01	.2872-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
56	.76000-01	350.00	206.00	.5697-01	.6876-01	.6876-01	.9000	.1997-02	.2410-02	1.518	9.663	543.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC11)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
165	2.002	7.980	34.98	-4.052	435.0	1302.	94.76	.4529-01	2.019	3808.	.1290-02	.7626-07
166	2.007	7.980	34.98	-4.060	435.1	1300.	94.62	.4530-01	2.019	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
165	.3504-01	.2869-01
166	.3504-01	.2866-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
166	.76000-01	350.00	206.00	.7629-01	.9247-01	.9247-01	.9000	.2673-02	.3240-02	1.985	12.56	556.9
165	.97500	381.20	1288.0	.1534-02	.1846-02	.1846-02	.9000	.5377-04	.6468-04	.4149-01	.3103	530.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 463

OH84B 60-0 FUSELAGE

(R4UC11)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
108	2.984	7.990	34.98	-4.050	670.1	1328.	96.43	.6920-01	3.092	3846.	.1937-02	.7760-07
109	3.001	7.990	34.99	-4.047	671.6	1325.	96.21	.6936-01	3.099	3842.	.1946-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
108	.4352-01	.2346-01
109	.4355-01	.2340-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
109	.76000-01	350.00	206.00	.7621-01	.9221-01	.9221-01	.9000	.3319-02	.4016-02	2.534	15.99	561.2
108	.97500	381.20	1288.0	.4326-02	.5191-02	.5191-02	.9000	.1883-03	.2259-03	.1500	1.122	530.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 484

OH84B 60-0 FUSELAGE

(R4UC11)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
142	3.684	8.000	35.01	-4.001	853.7	1353.	98.02	.8745-01	3.918	3883.	.2408-02	.7888-07
143	3.686	8.000	34.98	-4.043	854.1	1353.	98.02	.8749-01	3.919	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
142	.4914-01	.2108-01
143	.4915-01	.2108-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
143	.76000-01	350.00	206.00	.7613-01	.9189-01	.9189-01	.9000	.3742-02	.4517-02	2.952	18.61	563.7
142	.97500	381.20	1288.0	.7449-02	.8931-02	.8931-02	.9000	.3661-03	.4389-03	.2983	2.222	537.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 465

OH84B 60-0 FUSELAGE

(R4UC12)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
162	2.007	7.980	35.00	-1.998	435.0	1300.	94.62	.4529-01	2.019	3805.	.1292-02	.7614-07
163	2.006	7.980	35.01	-1.994	434.8	1300.	94.62	.4527-01	2.018	3805.	.1291-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
162	.3503-01	.2867-01
163	.3503-01	.2867-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
163	.76000-01	350.00	206.00	.6841-01	.8281-01	.8281-01	.9000	.2396-02	.2900-02	1.791	11.36	552.0
162	.97500	381.20	1288.0	.1138-02	.1369-02	.1369-02	.9000	.3987-04	.4794-04	.3078-01	.2304	527.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 466

OH84B 60-0 FUSELAGE

(R4UC12)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
105	3.010	7.990	35.02	-1.985	670.5	1321.	95.92	.6924-01	3.094	3836.	.1948-02	.7719-07
106	3.013	7.990	35.02	-1.984	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
105	.4349-01	.2338-01
106	.4349-01	.2337-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
106	.76000-01	350.00	206.00	.6951-01	.8391-01	.8391-01	.9000	.3023-02	.3649-02	2.324	14.75	550.7
105	.97500	381.20	1288.0	.8731-03	.1048-02	.1048-02	.9000	.3797-04	.4559-04	.3003-01	.2246	529.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 467

OH84B 60-0 FUSELAGE

(R4UC12)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
139	3.682	8.000	35.03	-1.973	853.3	1353.	98.02	.8741-01	3.916	3883.	.2407-02	.7888-07
140	3.683	8.000	35.02	-1.979	853.5	1353.	98.02	.8743-01	3.917	3883.	.2407-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
139	.4913-01	.2109-01
140	.4914-01	.2109-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
140	.76000-01	350.00	206.00	.6861-01	.8270-01	.8270-01	.9000	.3371-02	.4063-02	2.677	16.92	558.6
139	.97500	381.20	1288.0	.1010-02	.1211-02	.1211-02	.9000	.4964-04	.5949-04	.4057-01	.3026	535.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC13)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
159	2.024	7.980	35.01	-.9963	436.7	1296.	94.33	.4547-01	2.027	3799.	.1301-02	.7590-07
160	2.003	7.980	35.01	-.9963	435.2	1302.	94.76	.4531-01	2.020	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
159	.3508-01	.2856-01
160	.3505-01	.2869-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
160	.76000-01	350.00	206.00	.6483-01	.7838-01	.7838-01	.9000	.2272-02	.2747-02	1.711	10.87	548.6
159	.97500	381.20	1288.0	.4744-03	.5706-03	.5706-03	.9000	.1664-04	.2002-04	.1280-01	.9591-01	526.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC13)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
102	3.006	7.990	35.02	-.9887	672.7	1325.	96.21	.6947-01	3.104	3842.	.1949-02	.7742-07
103	3.014	7.990	35.03	-.9919	669.2	1318.	95.71	.6911-01	3.088	3832.	.1949-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
102	.4359-01	.2339-01
103	.4343-01	.2337-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
103	.76000-01	350.00	206.00	.6570-01	.7930-01	.7930-01	.9000	.2854-02	.3444-02	2.192	13.92	549.5
102	.97500	381.20	1288.0	.6608-03	.7937-03	.7937-03	.9000	.2880-04	.3459-04	.2280-01	.1703	533.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC13)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
136	3.699	8.000	35.06	-.9697	856.1	1352.	97.95	.8769-01	3.929	3881.	.2416-02	.7882-07
137	3.676	8.000	35.07	-.9690	851.9	1353.	98.02	.8726-01	3.909	3883.	.2403-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
136	.4921-01	.2104-01
137	.4909-01	.2111-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
137	.76000-01	350.00	206.00	.6586-01	.7934-01	.7934-01	.9000	.3233-02	.3895-02	2.574	16.28	556.6
136	.97500	381.20	1288.0	.6197-03	.7425-03	.7425-03	.9000	.3049-04	.3653-04	.2492-01	.1860	534.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC14)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
14	.5200	7.900	34.96	.2136-02	102.3	1241.	92.02	.1137-01	.4968	3715.	.3335-03	.7405-07
15	.5155	7.900	34.95	.2148-02	101.7	1243.	92.17	.1130-01	.4937	3718.	.3309-03	.7417-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
14	.1724-01	.5615-01
15	.1719-01	.5638-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
15	.76000-01	350.00	206.00	.6233-01	.7573-01	.7573-01	.9000	.1071-02	.1302-02	.7521	4.796	540.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC19)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
61	2.001	7.980	34.99	.9426-07	435.2	1303.	94.84	.4531-01	2.020	3810.	.1289-02	.7631-07
62	1.995	7.980	34.99	-.1400-02	434.9	1305.	94.98	.4527-01	2.018	3813.	.1287-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) = .0175
61	.3505-01	.2870-01
62	.3505-01	.2874-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
62	.76000-01	350.00	206.00	.6281-01	.7585-01	.7585-01	.9000	.2202-02	.2658-02	1.671	10.63	545.6
61	.97500	381.20	1288.0	.2819-03	.3387-03	.3387-03	.9000	.9883-05	.1187-04	.7681-02	.5758-01	525.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC14)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
80	3.039	7.990	35.01	-.6938-03	670.1	1312.	95.27	.6920-01	3.092	3823.	.1960-02	.7666-07
81	3.030	7.990	35.02	-.6903-03	670.5	1315.	95.49	.6924-01	3.094	3827.	.1957-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
80	.4343-01	.2329-01
81	.4346-01	.2332-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
81	.76000-01	350.00	206.00	.6289-01	.7592-01	.7592-01	.9000	.2733-02	.3300-02	2.093	13.29	548.8
80	.97500	381.20	1288.0	.6755-03	.8112-03	.8112-03	.9000	.2934-04	.3523-04	.2300-01	.1723	527.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC14)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
133	3.692	8.000	35.03	-.6868-03	854.7	1352.	97.95	.8755-01	3.922	3881.	.2413-02	.7882-07
134	3.680	8.000	35.02	-.6917-03	852.8	1353.	98.02	.8735-01	3.913	3883.	.2405-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
133	.4917-01	.2106-01
134	.4912-01	.2109-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
134	.76000-01	350.00	206.00	.6285-01	.7569-01	.7569-01	.9000	.3087-02	.3718-02	2.462	15.59	555.1
133	.97500	381.20	1288.0	.5580-03	.6683-03	.6683-03	.9000	.2743-04	.3286-04	.2246-01	.1678	532.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
202	.5125	7.900	39.95	-10.04	103.5	1263.	93.66	.1151-01	.5026	3748.	.3316-03	.7536-07
203	.4973	7.900	39.90	-10.06	99.51	1255.	93.06	.1106-01	.4831	3736.	.3207-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
202	.1739-01	.5641-01
203	.1703-01	.5732-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
203	.76000-01	350.00	206.00	.9808-01	.1189	.1189	.9000	.1671-02	.2026-02	1.196	7.632	538.9
202	.97500	381.20	1288.0	.4283-02	.5174-02	.5174-02	.9000	.7450-04	.8999-04	.5464-01	.4088	529.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
189	1.002	7.940	39.96	-10.05	203.7	1257.	92.34	.2191-01	.9670	3740.	.6404-03	.7431-07
190	1.004	7.940	39.95	-10.04	205.0	1261.	92.64	.2205-01	.9731	3746.	.6425-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
189	.2410-01	.4057-01
190	.2419-01	.4052-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
190	.76000-01	350.00	206.00	.9721-01	.1179	.1179	.9000	.2352-02	.2854-02	1.687	10.74	543.4
189	.97500	381.20	1288.0	.1112-01	.1345-01	.1345-01	.9000	.2680-03	.3242-03	.1942	1.451	531.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 477

OH84B 60-0 FUSELAGE

(R4UC15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
171	2.002	7.980	39.98	-10.09	434.9	1302.	94.76	.4528-01	2.018	3808.	.1290-02	.7626-07
172	2.004	7.980	39.98	-10.09	434.9	1301.	94.69	.4528-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
171	.3504-01	.2870-01
172	.3503-01	.2868-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
172	.76000-01	350.00	206.00	.9607-01	.1167	.1167	.9000	.3366-02	.4090-02	2.473	15.57	566.0
171	.97500	381.20	1288.0	.9669-02	.1165-01	.1165-01	.9000	.3388-03	.4082-03	.2595	1.935	535.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 478

OH84B 60-0 FUSELAGE

(R4UC15)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
99	2.993	7.990	40.02	-10.10	670.6	1326.	96.29	.6925-01	3.095	3843.	.1941-02	.7748-07
100	3.008	7.990	40.00	-10.10	673.1	1325.	96.21	.6951-01	3.106	3842.	.1950-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
99	.4353-01	.2343-01
100	.4360-01	.2338-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
100	.76000-01	350.00	206.00	.9493-01	.1150	.1150	.9000	.4139-02	.5016-02	3.136	19.73	567.0
99	.97500	381.20	1288.0	.1054-01	.1268-01	.1268-01	.9000	.4588-03	.5518-03	.3606	2.684	539.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
199	.4996	7.900	39.96	-3.996	99.13	1248.	92.54	.1102-01	.4813	3726.	.3213-03	.7447-07
200	.5083	7.900	39.97	-3.996	100.7	1247.	92.47	.1119-01	.4891	3724.	.3268-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
199	.1699-01	.5724-01
200	.1712-01	.5675-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
200	.76000-01	350.00	206.00	.7464-01	.9050-01	.9050-01	.9000	.1278-02	.1549-02	.9089	5.811	535.3
199	.97500	381.20	1288.0	.3894-03	.4707-03	.4707-03	.9000	.6614-05	.7994-05	.4778-02	.3582-01	525.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
186	.9941	7.940	39.96	-3.989	203.8	1264.	92.86	.2192-01	.9674	3751.	.6372-03	.7472-07
187	1.008	7.940	39.96	-3.991	205.0	1257.	92.34	.2205-01	.9731	3740.	.6445-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
186	.2413-01	.4070-01
187	.2418-01	.4044-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
187	.76000-01	350.00	206.00	.7160-01	.8677-01	.8677-01	.9000	.1731-02	.2098-02	1.245	7.950	537.7
186	.97500	381.20	1288.0	.9431-03	.1139-02	.1139-02	.9000	.2276-04	.2749-04	.1672-01	.1251	529.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
177	1.998	7.980	39.98	-4.010	434.6	1303.	94.84	.4525-01	2.017	3810.	.1288-02	.7631-07
178	2.003	7.980	39.97	-4.003	435.3	1302.	94.76	.4532-01	2.020	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
177	.3503-01	.2872-01
178	.3505-01	.2868-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
178	.76000-01	350.00	206.00	.7214-01	.8713-01	.8713-01	.9000	.2529-02	.3054-02	1.913	12.17	545.2
177	.97500	381.20	1288.0	.1596-02	.1918-02	.1918-02	.9000	.5591-04	.6718-04	.4341-01	.3253	526.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC17)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
95	2.992	7.990	39.99	-4.021	670.3	1326.	96.29	.6922-01	3.093	3943.	.1940-02	.7748-07
96	2.988	7.990	40.00	-4.027	670.3	1327.	96.36	.6922-01	3.093	3945.	.1939-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
95	.4352-01	.2344-01
96	.4352-01	.2345-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
96	.76000-01	350.00	206.00	.7147-01	.8643-01	.8643-01	.9000	.3110-02	.3761-02	2.384	15.05	560.3
95	.97500	381.20	1288.0	.1137-02	.1364-02	.1364-02	.9000	.4949-04	.5937-04	.3943-01	.2951	528.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC18)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
BDFLAP = .0000 SPCBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
196	.5017	7.900	39.96	-1.993	100.6	1257.	93.21	.1118-01	.4886	3739.	.3238-03	.7501-07
197	.4998	7.900	39.96	-1.991	100.2	1257.	93.21	.1114-01	.4867	3739.	.3226-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
196	.1713-01	.5706-01
197	.1710-01	.5716-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
197	.76000-01	350.00	206.00	.6599-01	.7990-01	.7990-01	.9000	.1129-02	.1366-02	.8147	5.210	534.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC18)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
183	1.005	7.940	39.96	-2.000	205.1	1260.	92.56	.2206-01	.9736	3745.	.6433-03	.7449-07
184	.9995	7.940	39.97	-2.001	204.9	1264.	92.86	.2204-01	.9726	3751.	.6406-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
183	.2420-01	.4049-01
184	.2420-01	.4059-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
184	.76000-01	350.00	206.00	.6525-01	.7900-01	.7900-01	.9000	.1579-02	.1912-02	1.146	7.320	537.7
183	.97500	391.20	1288.0	.2648-03	.3201-03	.3201-03	.9000	.6407-05	.7745-05	.4673-02	.3494-01	530.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC18)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
174	1.998	7.980	39.98	-2.000	435.7	1305.	94.98	.4536-01	2.022	3813.	.1289-02	.7643-07
175	1.988	7.980	39.99	-2.005	434.9	1308.	95.20	.4528-01	2.018	3817.	.1284-02	.7661-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
174	.3508-01	.2871-01
175	.3507-01	.2878-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
175	.76000-01	350.00	206.00	.6500-01	.7846-01	.7846-01	.9000	.2279-02	.2751-02	1.738	11.05	545.3
174	.97500	381.20	1288.0	.4765-03	.5723-03	.5723-03	.9000	.1672-04	.2008-04	.1303-01	.9767-01	525.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

IR4UC18

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BCFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
90	3.013	7.990	40.02	-2.028	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07
93	2.993	7.990	40.02	-2.035	672.1	1328.	96.43	.6941-01	3.102	3846.	.1943-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
90	.4349-01	.2337-01
93	.4359-01	.2343-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
93	.76000-01	350.00	206.00	.6444-01	.7773-01	.7773-01	.9000	.2809-02	.3388-02	2.181	13.84	551.0
90	.97500	381.20	1288.0	.8909-03	.1071-02	.1071-02	.9000	.3875-04	.4658-04	.3039-01	.2267	535.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
193	.5035	7.900	39.99	-1.006	99.91	1248.	92.54	.1110-01	.4851	3726.	.3238-03	.7447-07
194	.5043	7.900	39.98	-1.003	100.4	1251.	92.77	.1116-01	.4876	3730.	.3247-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
193	.1705-01	.5701-01
194	.1710-01	.5695-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
194	.76000-01	350.00	206.00	.6267-01	.7589-01	.7589-01	.9000	.1072-02	.1298-02	.7693	4.925	532.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
180	1.002	7.940	39.98	-1.002	205.1	1263.	92.78	.2206-01	.9736	3749.	.6418-03	.7466-07
181	.9960	7.940	39.97	-1.003	203.7	1262.	92.71	.2191-01	.9670	3748.	.6379-03	.7460-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
180	.2421-01	.4055-01
181	.2412-01	.4067-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
181	.76000-01	350.00	206.00	.6239-01	.7558-01	.7558-01	.9000	.1505-02	.1823-02	1.088	6.941	538.9
180	.97500	381.20	1288.0	.2152-03	.2603-03	.2603-03	.9000	.5210-05	.6301-05	.3800-02	.2837-01	533.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
168	2.006	7.980	40.02	-1.016	435.8	1302.	94.76	.4537-01	2.023	3808.	.1292-02	.7626-07
169	2.008	7.980	40.02	-1.013	435.3	1300.	94.62	.4532-01	2.020	3805.	.1293-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
168	.3507-01	.2867-01
169	.3505-01	.2866-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
169	.76000-01	350.00	206.00	.6146-01	.7435-01	.7435-01	.9000	.2154-02	.2606-02	1.615	10.25	549.9
168	.97500	381.20	1288.0	.1518-03	.1826-03	.1826-03	.9000	.5326-05	.6406-05	.4112-02	.3076-01	529.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC21)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
86	3.010	7.990	40.08	-1.034	669.1	1319.	95.78	.6910-01	3.088	3833.	.1947-02	.7707-07
88	3.008	7.990	40.09	-1.038	670.2	1321.	95.92	.6921-01	3.093	3836.	.1947-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
86	.4344-01	.2338-01
88	.4348-01	.2339-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
88	.76000-01	350.00	206.00	.6322-01	.7634-01	.7634-01	.9000	.2749-02	.3319-02	2.113	13.39	552.2
86	.97500	381.20	1288.0	.5710-03	.6962-03	.6862-03	.9000	.2480-04	.2981-04	.1949-01	.1456	532.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
17	.5042	7.900	40.02	-.3159-02	99.80	1246.	92.40	.1109-01	.4846	3723.	.3240-03	.7435-07
18	.5054	7.900	40.00	-.3140-02	100.3	1248.	92.54	.1114-01	.4869	3726.	.3250-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
17	.1704-01	.5699-01
18	.1708-01	.5691-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
18	.76000-01	350.00	206.00	.6051-01	.7340-01	.7340-01	.9000	.1034-02	.1254-02	.7342	4.689	537.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
33	1.016	7.940	40.01	.1050-02	206.6	1257.	92.34	.2223-01	.9808	3740.	.6496-03	.7431-07
34	1.029	7.940	39.99	.1042-02	208.4	1254.	92.12	.2242-01	.9894	3736.	.6568-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
33	.2428-01	.4028-01
34	.2437-01	.4005-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
34	.76000-01	350.00	206.00	.5925-01	.7196-01	.7196-01	.9000	.1444-02	.1754-02	1.025	6.522	544.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
74	2.011	7.980	40.05	-.1426-06	436.5	1301.	94.69	.4544-01	2.026	3807.	.1295-02	.7620-07
75	2.004	7.980	40.04	-.1423-06	434.9	1301.	94.69	.4527-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
74	.3510-01	.2863-01
75	.3503-01	.2868-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
75	.76000-01	350.00	206.00	.5978-01	.7222-01	.7222-01	.9000	.2094-02	.2530-02	1.582	10.06	545.5
74	.97500	381.20	1288.0	.4774-03	.5740-03	.5740-03	.9000	.1675-04	.2014-04	.1295-01	.9694-01	527.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
83	3.029	7.990	40.06	-.1434-06	670.3	1315.	95.49	.6922-01	3.093	3827.	.1957-02	.7684-07
84	3.017	7.990	40.07	.2139-02	669.8	1318.	95.71	.6917-01	3.091	3832.	.1951-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
83	.4345-01	.2332-01
84	.4345-01	.2336-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
84	.76000-01	350.00	206.00	.5986-01	.7228-01	.7228-01	.9000	.2601-02	.3141-02	1.996	12.66	550.4
83	.97500	381.20	1288.0	.1602-03	.1924-03	.1924-03	.9000	.6963-05	.8362-05	.5469-02	.4093-01	529.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC22)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
146	3.671	8.000	40.07	-.1071-02	851.7	1354.	98.09	.8724-01	3.908	3884.	.2400-02	.7893-07
147	3.672	8.000	40.10	-.2161-02	850.8	1353.	98.02	.8715-01	3.904	3883.	.2400-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
146	.4909-01	.2112-01
147	.4906-01	.2112-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
147	.76000-01	350.00	206.00	.5909-01	.7112-01	.7112-01	.9000	.2899-02	.3489-02	2.318	14.69	553.0
146	.97500	381.20	1288.0	.5977-03	.7163-03	.7163-03	.9000	.2934-04	.3516-04	.2399-01	.1788	536.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC24)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
87	3.025	7.990	40.26	.9099-02	670.1	1316.	95.56	.6920-01	3.092	3829.	.1955-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
87	.4345-01	.2333-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
87	.76000-01	350.00	206.00	.6019-01	.7270-01	.7270-01	.9000	.2615-02	.3159-02	1.999	12.67	551.5

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O FUSELAGE

(R4UC25)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
21	.5073	7.900	40.03	1.042	101.1	1252.	92.84	.1124-01	.4910	3732.	.3268-03	.7471-07
22	.5090	7.900	40.03	1.039	101.5	1252.	92.84	.1128-01	.4927	3732.	.3279-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
21	.1717-01	.5677-01
22	.1719-01	.5668-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
22	.76000-01	350.00	206.00	.5659-01	.6862-01	.6862-01	.9000	.9731-03	.1180-02	.6949	4.438	537.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC25)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
36	1.022	7.940	40.06	1.017	207.1	1254.	92.12	.2228-01	.9832	3736.	.6528-03	.7413-07
37	1.021	7.940	40.06	1.019	207.3	1256.	92.27	.2230-01	.9842	3739.	.6523-03	.7425-07

RUN NUMBER	HREF BTU/ R FT2SEC =.0175	STN NO REF (R)
36	.2430-01	.4018-01
37	.2432-01	.4020-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= . TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
37	.76000-01	350.00	206.00	.5596-01	.6791-01	.6791-01	.9000	.1361-02	.1651-02	.9706	6.183	542.3
36	.97500	381.20	1268.0	.6440-04	.7791-04	.7791-04	.9000	.1565-05	.1893-05	.1131-02	.8456-02	530.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC25)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
71	1.998	7.980	40.08	1.028	434.2	1302.	94.76	.4520-01	2.015	3808.	.1287-02	.7626-07
72	2.004	7.980	40.09	1.028	435.4	1302.	94.76	.4533-01	2.021	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
71	.3501-01	.2872-01
72	.3506-01	.2868-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
72	.76000-01	350.00	206.00	.5663-01	.6841-01	.6841-01	.9000	.1985-02	.2398-02	1.502	9.553	545.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC26)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
24	.5075	7.900	39.99	2.018	101.2	1252.	92.84	.1124-01	.4912	3732.	.3269-03	.7471-07
25	.5071	7.900	39.99	2.019	101.0	1251.	92.77	.1122-01	.4903	3730.	.3265-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
24	.1717-01	.5676-01
25	.1715-01	.5679-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
25	.76000-01	350.00	206.00	.5323-01	.6454-01	.6454-01	.9000	.9130-03	.1107-02	.6517	4.164	536.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC26)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
39	1.016	7.940	40.02	2.015	206.2	1256.	92.27	.2218-01	.9789	3739.	.6489-03	.7425-07
40	1.021	7.940	40.02	2.016	206.8	1254.	92.12	.2225-01	.9818	3736.	.6518-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
39	.2425-01	.4030-01
40	.2428-01	.4021-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
40	.76000-01	350.00	206.00	.5272-01	.6397-01	.6397-01	.9000	.1280-02	.1553-02	.9132	5.824	540.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC26)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
68	X10 6 2.002	7.980	40.01	2.012	434.5	1301.	94.69	.4523-01	2.016	3807.	.1289-02	.7620-07
69	2.003	7.980	40.01	2.011	433.8	1299.	94.54	.4516-01	2.013	3804.	.1289-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
68	.3502-01	.2870-01
69	.3498-01	.2869-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
69	.76000-01	350.00	206.00	.5363-01	.6477-01	.6477-01	.9000	.1876-02	.2266-02	1.416	9.013	543.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC27)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
27	.5107	7.900	40.02	4.000	101.5	1249.	92.62	.1128-01	.4926	3727.	.3286-03	.7453-07
28	.5063	7.900	40.02	4.000	100.5	1248.	92.54	.1116-01	.4878	3726.	.3256-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
27	.1719-01	.5660-01
28	.1710-01	.5686-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
28	.76000-01	350.00	206.00	.4849-01	.5881-01	.5881-01	.9000	.8291-03	.1006-02	.5897	3.768	536.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC27)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
42	1.017	7.940	39.99	4.011	205.6	1252.	91.98	.2212-01	.9761	3733.	.6491-03	.7401-07
43	1.018	7.940	40.00	4.023	206.3	1254.	92.12	.2219-01	.9794	3736.	.6502-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
42	.2420-01	.4028-01
43	.2425-01	.4025-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
43	.76000-01	350.00	206.00	.4715-01	.5718-01	.5718-01	.9000	.1143-02	.1387-02	.8169	5.212	539.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 505

OH84B 60-0 FUSELAGE

(R4UC27)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
65	1.997	7.980	40.03	4.032	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07
66	2.012	7.980	40.01	4.024	435.7	1299.	94.54	.4536-01	2.022	3804.	.1295-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
65	.3502-01	.2873-01
66	.3506-01	.2863-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
65	.76000-01	350.00	206.00	.4763-01	.5755-01	.5755-01	.9000	.1668-02	.2016-02	1.260	8.004	547.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC28)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
30	.5116	7.900	40.08	9.969	101.8	1250.	92.69	.1131-01	.4940	3729.	.3293-03	.7459-07
31	.5055	7.900	40.08	9.971	100.7	1251.	92.77	.1119-01	.4887	3730.	.3255-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
30	.1721-01	.5655-01
31	.1712-01	.5688-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
31	.76000-01	350.00	206.00	.3323-01	.4027-01	.4027-01	.9000	.5690-03	.6895-03	.4072	2.604	535.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UC28)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
45	1.021	7.940	39.96	10.01	208.6	1261.	92.64	.2244-01	.9903	3746.	.6538-03	.7454-07
46	1.011	7.940	40.01	10.10	207.3	1264.	92.86	.2230-01	.9842	3751.	.6482-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
45	.2441-01	.4017-01
46	.2434-01	.4035-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
46	.76000-01	350.00	206.00	.3251-01	.3934-01	.3934-01	.9000	.7913-03	.9575-03	.5761	3.682	535.7
45	.97500	381.20	1288.0	.3401-03	.4111-03	.4111-03	.9000	.8301-05	.1004-04	.6055-02	.4526-01	531.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC28)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
58	1.996	7.980	40.01	10.01	434.6	1304.	94.91	.4524-01	2.017	3811.	.1287-02	.7637-07
59	1.995	7.980	40.01	10.00	433.9	1303.	94.84	.4517-01	2.014	3810.	.1286-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
58	.3503-01	.2873-01
59	.3500-01	.2874-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
59	.76000-01	350.00	206.00	.3254-01	.3924-01	.3924-01	.9000	.1139-02	.1373-02	.8688	5.542	539.8
58	.97500	381.20	1288.0	.4324-03	.5190-03	.5190-03	.9000	.1515-04	.1818-04	.1184-01	.8888-01	522.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UC29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
717	.5091	7.900	39.99	.3459-02	100.3	1242.	92.10	.1115-01	.4869	3717.	.3266-03	.7411-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
717	.1707-01	.5674-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
717	.97500	381.20	1288.0	.1812-03	.2189-03	.2189-03	.9000	.3093-05	.3736-05	.2232-02	.1678-01	520.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
715	1.013	7.940	39.99	.3469-02	207.7	1264.	92.86	.2234-01	.9860	3751.	.6495-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
715	.2436-01	.4031-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DT:DT DEG. R /SEC	TW DEG. R
715	.97500	381.20	1288.0	.3032-03	.3656-03	.3656-03	.9000	.7388-05	.8909-05	.5469-02	.4104-01	523.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
709	2.011	7.980	40.04	.1046-01	432.9	1294.	94.18	.4507-01	2.009	3796.	.1292-02	.7579-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
709	.3492-01	.2865-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
709	.97500	381.20	1288.0	.1067-03	.1284-03	.1284-03	.9000	.3726-05	.4485-05	.2851-02	.2134-01	528.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC29)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
707	3.005	7.990	40.06	.6989-02	671.7	1324.	96.14	.6937-01	3.100	3841.	.1947-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
707	.4355-01	.2339-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
707	.97500	381.20	1288.0	.7112-03	.8547-03	.8547-03	.9000	.3097-04	.3722-04	.2443-01	.1822	535.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC30)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
719	.5000	7.900	39.98	.3465-02	100.3	1257.	93.21	.1115-01	.4869	3739.	.3227-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
719	.1711-01	.5715-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
719	.97500	381.20	1288.0	.5911-03	.7130-03	.7130-03	.9000	.1011-04	.1220-04	.7433-02	.5583-01	521.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC30)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
711	1.999	7.980	40.05	.1048-01	436.8	1307.	95.13	.4548-01	2.027	3815.	.1290-02	.7655+07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
711	.3514-01	.2870-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
711	.97500	381.20	1288.0	.4446-03	.5344-03	.5344-03	.9000	.1562-04	.1878-04	.1216-01	.9100-01	528.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC30)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -15.00
BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
705	3.029	7.990	40.07	.3498-02	670.2	1315.	95.49	.6921-01	3.093	3827.	.1956-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
705	.4345-01	.2332-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
705	.97500	381.20	1288.0	.7364-03	.8858-03	.8858-03	.9000	.3200-04	.3849-04	.2494-01	.1860	535.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UC31)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
BDFLAP = -12.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
727	3.035	7.990	40.06	-.2097-01	670.9	1314.	95.41	.6928-01	3.096	3926.	.1960-02	.7678-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
727	.4347-01	.2330-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
727	.97500	381.20	1288.0	.6329-03	.7590-03	.7590-03	.9000	.2751-04	.3299-04	.2175-01	.1632	523.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC32)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
BDFLAP = -5.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
723	.4957	7.900	39.97	-.1731-01	100.1	1263.	93.66	.1113-01	.4862	3748.	.3207-03	.7536-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
723	.1711-01	.5736-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
723	.97500	381.20	1288.0	.3240-03	.3911-03	.3911-03	.9000	.5543-05	.6690-05	.4081-02	.3058-01	526.4

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O FUSELAGE

(R4UC32)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
735	1.997	7.980	40.06	-.2095-01	434.8	1304.	94.91	.4527-01	2.018	3811.	.1287-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
735	.3504-01	.2873-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
735	.97500	381.20	1288.0	.1091-03	.1312-03	.1312-03	.9000	.3825-05	.4598-05	.2965-02	.2219-01	528.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC32)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
BDFLAP = -9.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
729	3.003	7.990	40.07	-.2097-01	668.3	1320.	95.85	.6901-01	3.084	3835.	.1943-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
729	.4342-01	.2341-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
729	.97500	381.20	1288.0	.5885-03	.7063-03	.7063-03	.9000	.2555-04	.3066-04	.2022-01	.1513	528.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
721	.5028	7.900	39.98	-.1386-01	100.9	1257.	93.21	.1121-01	.4897	3739.	.3245-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
721	.1715-01	.5699-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
721	.97500	381.20	1288.0	.4273-03	.5163-03	.5163-03	.9000	.7329-05	.8855-05	.5344-02	.4002-01	527.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 521

OH84B 60-0 FUSELAGE

(R4UC33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TC DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
733	1.990	7.980	40.04	-.2091-01	433.8	1305.	94.98	.4516-01	2.013	3813.	.1283-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
733	.3501-01	.2877-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO.	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
733	.97500	381.20	1288.0	.1725-03	.2073-03	.2073-03	.9000	.6038-05	.7257-05	.4690-02	.3512-01	527.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 522

OH84B 60-0 FUSELAGE

(RHUC33)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -12.50
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
731	3.017	7.990	40.06	-.2096-01	671.5	1320.	95.85	.6935-01	3.099	3835.	.1953-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
731	.4352-01	.2335-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
731	.97500	381.20	1288.0	.6650-03	.7984-03	.7984-03	.9000	.2894-04	.3475-04	.2287-01	.1711	529.5

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 523

OH84B 60-O FUSELAGE

(R4UC34)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
BOFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
659	1.001	7.940	39.97	-.4645-06	206.7	1270.	93.30	.2223-01	.9811	3760.	.6431-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
659	.2432-01	.4053-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
659	.97500	381.20	1288.0	.3641-03	.4390-03	.4390-03	.9000	.8855-05	.1068-04	.6585-02	.4935-01	526.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 524

OH84B 60-0 FUSELAGE

(R4UC34)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BOFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
647	1.985	7.980	40.00	.3471-02	436.3	1312.	95.49	.4542-01	2.025	3823.	.1284-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
647	.3514-01	.2878-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
647	.97500	381.20	1288.0	.5587-03	.6725-03	.6725-03	.9000	.1963-04	.2363-04	.1521-01	.1134	536.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 525

OH84B 60-0 FUSELAGE

(R4UC34)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BOFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
649	3.013	7.990	40.03	.6967-02	670.5	1320.	95.85	.6924-01	3.094	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
649	.4349-01	.2337-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
649	.97500	381.20	1288.0	.6665-03	.8003-03	.8003-03	.9000	.2899-04	.3480-04	.2288-01	.1711	530.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
657	.9860	7.940	39.99	-.4654-06	202.4	1265.	92.93	.2177-01	.9606	3752.	.6322-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
657	.2405-01	.4086-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
657	.97500	381.20	1288.0	.8269-04	.9978-04	.9978-04	.9000	.1989-05	.2400-05	.1468-02	.1100-01	526.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
BOFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
645	1.997	7.980	40.01	-.4664-06	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
645	.3502-01	.2873-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	4/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
645	.97500	381.20	1288.0	.3566-03	.4297-03	.4297-03	.9000	.1249-04	.1505-04	.9562-02	.7127-01	536.9

DATE 23 FEB 80.

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC35)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
655	2.999	7.990	40.01	.6952-02	675.0	1330.	96.58	.6970-01	3.115	3849.	.1948-02	.7772-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
655	.4369-01	.2340-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
655	.97500	381.20	1288.0	.6872-03	.8249-03	.8249-03	.9000	.3002-04	.3604-04	.2392-01	.1786	533.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
663	1.016	7.940	39.97	-.4643-06	207.3	1260.	92.56	.2230-01	.9840	3745.	.6501-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
663	.2433-01	.4028-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
663	.97500	381.20	1288.0	.3260-03	.3936-03	.3936-03	.9000	.7930-05	.9576-05	.5811-02	.4353-01	526.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
643	2.006	7.980	39.98	-.1040-01	434.5	1299.	94.54	.4523-01	2.016	3804.	.1291-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
643	.3501-01	.2867-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
643	.97500	381.20	1288.0	.4479-03	.5385-03	.5385-03	.9000	.1568-04	.1885-04	.1210-01	.9062-01	527.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC36)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
653	2.998	7.990	40.02	.6962-02	672.4	1327.	96.36	.6944-01	3.103	3845.	.1945-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
653	.4359-01	.2341-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
653	.97500	361.20	1288.0	.1028-02	.1234-02	.1234-02	.9000	.4480-04	.5379-04	.3554-01	.2654	533.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
BDFLAP = 5.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
661	1.021	7.940	39.97	-.4644-05	206.8	1254.	92.12	.2224-01	.9816	3736.	.6517-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
661	.2428-01	.4021-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
661	.97500	381.20	1288.0	.7300-03	.8821-03	.8821-03	.9000	.1772-04	.2141-04	.1289-01	.9556-01	526.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
641	2.028	7.980	39.99	-.6938-02	435.7	1292.	94.03	.4536-01	2.022	3794.	.1302-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
641	.3502-01	.2854-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
641	.97500	381.20	1288.0	.4089-03	.4916-03	.4916-03	.9000	.1432-04	.1722-04	.1100-01	.8250-01	523.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC37)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = -5.000
BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
651	2.990	7.990	40.05	.3490-02	671.4	1328.	96.43	.6934-01	3.098	3846.	.1941-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
651	.4356-01	.2344-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
651	.97500	381.20	1288.0	.8816-03	.1058-02	.1058-02	.9000	.3840-04	.4609-04	.3058-01	.2285	531.4

OH848 MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

OH84B 60-0 FUSELAGE.

(R4UC38)

PARAMETRIC DATA

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MACH      = 8.000      ALPHA    = 40.00      BETA     = .0000      ELEVEN    = .0000
BOFLAP    = -12.50    SPDBRK   = .0000

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TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 ⁶	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT ³	MU LB-SEC /FT ²
631	.5096	7.900	39.97	.1384-01	101.0	1247.	92.47	.1122-01	.4903	3724.	.3276-03	.7441-07

RUN	HREF	STN NO
NUMBER	BTU/ R	REF(R)
	FT2SEC	= .0175
631	.1714-01	.5668-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
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DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC38)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = -12.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
603	2.009	7.980	39.99	.1734-01	434.1	1297.	94.40	.4519-01	2.014	3801.	.1292-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
603	.3498-01	.2866-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
603	.97500	381.20	1288.0	.2174-03	.2616-03	.2616-03	.9000	.7604-05	.9151-05	.5831-02	.4362-01	529.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

IR4UC3E

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = -12.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
581	2.994	7.990	40.05	.1047-01	671.7	1327.	96.36	.6937-01	3.100	3845.	.1943-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
581	.4357-01	.2342-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
581	.97500	381.20	1288.0	.5616-03	.6753-03	.6753-03	.9000	.2447-04	.2942-04	.1928-01	.1435	538.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -5.000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
615	1.002	7.940	39.97	.1384-01	204.7	1261.	92.64	.2202-01	.9716	3746.	.6415-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
615	.2418-01	.4055-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
615	.97500	381.20	1288.0	.3422-03	.4131-03	.4131-03	.9000	.8273-05	.9986-05	.6080-02	.4557-01	525.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 539

OH84B 60-0 FUSELAGE

(R4UC39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
593	2.004	7.980	40.00	.1389-01	436.0	1303.	94.84	.4539-01	2.023	3810.	.1292-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
593	.3509-01	.2867-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
593	.97500	381.20	1288.0	.1972-03	.2371-03	.2371-03	.9000	.6920-05	.8320-05	.5360-02	.4013-01	528.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC39)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = -5.000 SPD8RK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
579	2.997	7.990	40.02	.1044-01	670.8	1325.	96.21	.6927-01	3.096	3842.	.1943-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
579	.4353-01	.2342-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
579	.97500	381.20	1288.0	.7861-03	.9460-03	.9460-03	.9000	.3422-04	.4118-04	.2682-01	.1995	540.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC40)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
613	1.004	7.940	39.97	.1731-01	204.8	1260.	92.56	.2203-01	.9721	3745.	.6423-03	.7449-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
613	.2418-01	.4052-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
613	.97500	381.20	1288.0	.1975-03	.2384-03	.2384-03	.9000	.4776-05	.5764-05	.3508-02	.2630-01	525.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC40)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 ⁶	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT ³	MU LB-SEC /FT ²
595	2.001	7.980	40.02	.1392-01	435.8	1304.	94.91	.4537-01	2.022	3811.	.1290-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
595	.3508-01	.2869-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
595	.97500	381.20	1288.0	.3495-03	.4203-03	.4203-03	.9000	.1226-04	.1474-04	.9496-02	.7105-01	529.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UC40)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
577	3.019	7.990	40.06	.6989-02	670.3	1318.	95.71	.6922-01	3.093	3832.	.1952-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
577	.4347-01	.2335-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
577	.97500	381.20	1288.0	.7141-03	.8592-03	.8592-03	.9000	.3104-04	.3735-04	.2422-01	.1805	537.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BOFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
611	.9967	7.940	39.96	.1384-01	204.6	1265.	92.93	.2201-01	.9711	3752.	.6391-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
611	.2418-01	.4064-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
611	.97500	381.20	1288.0	.4287-03	.5170-03	.5170-03	.9000	.1037-04	.1250-04	.7671-02	.5752-01	524.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
597	2.013	7.980	40.02	.1392-01	434.8	1297.	94.40	.4526-01	2.018	3801.	.1294-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
597	.3501-01	.2863-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
597	.97500	381.20	1288.0	.4757-03	.5723-03	.5723-03	.9000	.1665-04	.2004-04	.1278-01	.9564-01	529.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UC41)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = 5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
583	2.999	7.990	40.05	.1396-01	671.1	1325.	96.21	.6930-01	3.097	3842.	.1944-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
583	.4354-01	.2341-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
583	.97500	381.20	1288.0	.6276-03	.7542-03	.7542-03	.9000	.2732-04	.3284-04	.2156-01	.1608	535.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC42)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
617	1.002	7.940	39.97	.1731-01	206.2	1267.	93.08	.2218-01	.9787	3755.	.6431-03	.7490-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
617	.2428-01	.4052-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
617	.97500	381.20	1288.0	.2685-03	.3238-03	.3238-03	.9000	.6520-05	.7863-05	.4834-02	.3624-01	525.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC42)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
591	1.988	7.980	40.01	.1391-01	433.9	1306.	95.05	.4517-01	2.013	3814.	.1283-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
591	.3501-01	.2878-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
591	.97500	381.20	1288.0	.1441-03	.1732-03	.1732-03	.9000	.5046-05	.6065-05	.3923-02	.2937-01	528.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC42)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
589	3.003	7.990	40.07	.1748-01	673.7	1327.	96.36	.6957-01	3.109	3845.	.1949-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
589	.4363-01	.2339-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
589	.97500	381.20	1288.0	.6185-03	.7427-03	.7427-03	.9000	.2699-04	.3241-04	.2140-01	.1598	533.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
609	1.024	7.940	39.98	.1385-01	209.1	1261.	92.64	.2249-01	.9925	3746.	.6553-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
609	.2443-01	.4012-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
609	.97500	381.20	1288.0	.2544-03	.3071-03	.3071-03	.9000	.6216-05	.7505-05	.4565-02	.3421-01	526.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = 15.00 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
599	1.990	7.980	40.04	.1744-01	435.0	1307.	95.13	.4528-01	2.019	3815.	.1285-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
599	.3506-01	.2876-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
599	.97500	381.20	1288.0	.3444-03	.4139-03	.4139-03	.9000	.1207-04	.1451-04	.9395-02	.7032-01	528.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UC43)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BOFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 ⁶	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT ³	MU LB-SEC /FT ²
585	2.982	7.990	40.06	.1397-01	669.7	1328.	96.43	.6916-01	3.091	3846.	.1936-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
585	.4351-01	.2347-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
585	.97500	381.20	1288.0	.4973-03	.5973-03	.5973-03	.9000	.2164-04	.2599-04	.1715-01	.1279	535.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
607	.9872	7.940	39.96	.1383-01	205.3	1276.	93.74	.2208-01	.9744	3769.	.6358-03	.7543-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
607	.2426-01	.4078-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
607	.97500	381.20	1288.0	.3854-03	.4643-03	.4643-03	.9000	.9351-05	.1127-04	.7020-02	.5264-01	524.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 23.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
601	1.999	7.980	39.99	.1388-01	435.3	1304.	94.91	.4531-01	2.020	3811.	.1289-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
601	.3506-01	.2871-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
601	.97500	381.20	1288.0	.2692-03	.3238-03	.3238-03	.9000	.9440-05	.1135-04	.7306-02	.5465-01	529.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 555

OH84B 60-0 FUSELAGE

(R4UC44)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
587	3.006	7.990	40.06	.1398-01	671.3	1323.	96.07	.6933-01	3.098	3839.	.1948-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
587	.4353-01	.2339-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
587	.97500	381.20	1288.0	.9172-03	.1102-02	.1102-02	.9000	.3993-04	.4797-04	.3148-01	.2349	534.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
681	.5058	7.900	39.93	-.1034-01	101.2	1255.	93.06	.1125-01	.4913	3736.	.3262-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
681	.1718-01	.5684-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
681	.97500	381.20	1288.0	.5534-03	.6686-03	.6686-03	.9000	.9506-05	.1148-04	.6923-02	.5187-01	526.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
667	1.005	7.940	39.96	-.6922-02	205.3	1261.	92.64	.2208-01	.9744	3746.	.6433-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
667	.2421-01	.4049-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
667	.97500	381.20	1288.0	.1167-02	.1410-02	.1410-02	.9000	.2825-04	.3413-04	.2064-01	.1544	529.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
687	1.992	7.980	40.00	-.6947-02	434.9	1306.	95.05	.4527-01	2.018	3814.	.1285-02	.7649-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
687	.3505-01	.2875-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
687	.97500	381.20	1288.0	.8473-03	.1018-02	.1018-02	.9000	.2970-04	.3570-04	.2308-01	.1727	528.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC45)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
BDFLAP = -5.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
701	2.998	7.990	40.05	-.6978-02	669.5	1323.	96.07	.6914-01	3.090	3839.	.1942-02	.7731-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
701	.4347-01	.2342-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
701	.97500	381.20	1288.0	.7302-03	.8777-03	.8777-03	.9000	.3174-04	.3815-04	.2498-01	.1863	535.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
679	.5025	7.900	39.97	-.6923-02	100.5	1255.	93.06	.1117-01	.4881	3736.	.3241-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
679	.1712-01	.5703-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG.-R
679	.97500	381.20	1288.0	.1360-03	.1643-03	.1643-03	.9000	.2328-05	.2812-05	.1695-02	.1270-01	526.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
665	1.003	7.940	39.97	-.1732-01	205.8	1265.	92.93	.2213-01	.9768	3752.	.6429-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
665	.2425-01	.4052-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
665	.97500	381.20	1288.0	.8069-03	.9753-03	.9753-03	.9000	.1957-04	.2366-04	.1433-01	.1070	532.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UC46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
689	1.996	7.980	39.99	-1041-01	434.3	1303.	94.84	.4521-01	2.015	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
689	.3502-01	.2873-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
689	.97500	381.20	1288.0	.8244-03	.9912-03	.9912-03	.9000	.2887-04	.3471-04	.2235-01	.1673	528.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC46)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
699	2.999	7.990	40.05	-.6984-02	670.4	1324.	96.14	.6923-01	3.094	3841.	.1944-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
699	.4351-01	.2341-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
699	.97500	381.20	1288.0	.9004-03	.1082-02	.1082-02	.9000	.3918-04	.4707-04	.3090-01	.2306	534.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
683	.5030	7.900	39.93	-.6896-02	100.5	1254.	92.99	.1117-01	.4860	3735.	.3242-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
683	.1712-01	.5700-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
683	.97500	381.20	1288.0	.4710-03	.5690-03	.5690-03	.9000	.8062-05	.9739-05	.5870-02	.4400-01	525.6

DATE 23 FEB 80

OH84B MODEL 80-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 80-0 FUSELAGE

(R4UC47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
BDFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
669	1.010	7.940	39.95	-.1037-01	205.9	1259.	92.49	.2215-01	.9773	3743.	.6462-03	.7443-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
669	.2424-01	.4040-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
669	.97500	381.20	1288.0	.1163-02	.1406-02	.1406-02	.9000	.2820-04	.3408-04	.2058-01	.1540	528.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
BOFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
685	2.023	7.980	39.98	-.6930-02	434.5	1292.	94.03	.4523-01	2.016	3794.	.1298-02	.7567-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
685	.3497-01	.2858-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
685	.97500	381.20	1288.0	.1024-02	.1232-02	.1232-02	.9000	.3582-04	.4308-04	.2742-01	.2055	526.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC47)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
BOFLAP = 8.000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
703	2.990	7.990	40.01	-.6955-02	668.4	1324.	96.14	.6903-01	3.085	3841.	.1938-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
703	.4344-01	.2345-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
703	.97500	381.20	1288.0	.1005-02	.1207-02	.1207-02	.9000	.4365-04	.5244-04	.3446-01	.2572	534.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC4B)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
673	1.003	7.940	39.97	-.6929-02	205.6	1264.	92.86	.2211-01	.9759	3751.	.6427-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
673	.2424-01	.4052-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
673	.97500	381.20	1288.0	.7347-03	.8867-03	.8867-03	.9000	.1781-04	.2149-04	.1313-01	.9833-01	526.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC48)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
BOFLAP = 15.00 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
691	1.993	7.980	39.99	-.6942-02	434.6	1305.	94.98	.4524-01	2.017	3813.	.1286-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	-STN NO REF(R) =.0175
691	.3504-01	.2875-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
691	.97500	381.20	1288.0	.1046-02	.1258-02	.1258-02	.9000	.3666-04	.4409-04	.2838-01	.2122	530.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC48)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
697	2.999	7.990	40.00	-.6947-02	668.9	1322.	96.00	.6908-01	3.087	3838.	.1942-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
697	.4345-01	.2342-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
697	.97500	381.20	1288.0	.1232-02	.1480-02	.1480-02	.9000	.5351-04	.6429-04	.4220-01	.3151	533.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
677	.5060	7.900	39.96	-.6920-02	101.1	1254.	92.99	.1124-01	.4909	3735.	.3262-03	.7483-07

RUN NUMBER	HREF BTU/ R FT2SEC =.0175	STN NO REF(R) =.5684-01
677	.1717-01	.5684-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
677	.97500	381.20	1288.0	.2425-03	.2930-03	.2930-03	.9000	.4164-05	.5031-05	.3031-02	.2271-01	525.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
671	1.007	7.940	39.96	-.1038-01	204.7	1257.	92.34	.2202-01	.9716	3740.	.6435-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
671	.2416-01	.4047-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
671	.97500	381.20	1288.0	.1476-02	.1783-02	.1783-02	.9000	.3566-04	.4309-04	.2598-01	.1945	528.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
 BOFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
693	2.000	7.980	40.00	-.1042-01	434.5	1302.	94.76	.4523-01	2.016	3808.	.1288-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
693	.3502-01	.2871-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
693	.97500	381.20	1288.0	.9282-03	.1117-02	.1117-02	.9000	.3251-04	.3910-04	.2508-01	.1876	530.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 574

OH84B 60-0 FUSELAGE

(R4UC49)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 5.000
BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
695	3.030	7.990	40.02	-.6963-02	669.0	1313.	95.34	.6909-01	3.087	3825.	.1956-02	.7672-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
695	.4340-01	.2332-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
695	.97500	381.20	1288.0	.7067-03	.8489-03	.8489-03	.9000	.3067-04	.3684-04	.2404-01	.1799	528.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
767	.5029	7.900	39.98	-.3466-02	100.1	1251.	92.77	.1113-01	.4863	3730.	.3238-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
767	.1708-01	.5703-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
767	.97500	381.20	1288.0	.4871-03	.5891-03	.5891-03	.9000	.8320-05	.1006-04	.6012-02	.4501-01	528.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
757	1.043	7.940	39.99	-4654-06	214.1	1265.	92.93	.2302-01	1.016	3752.	.6687-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
757	.2474-01	.3973-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
757	.97500	381.20	1288.0	.7883-03	.9519-03	.9519-03	.9000	.1950-04	.2355-04	.1435-01	.1074	528.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
755	1.966	7.980	40.06	-4684-06	429.7	1307.	95.13	.4474-01	1.994	3815.	.1269-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
755	.3485-01	.2894-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
755	.97500	381.20	1288.0	.1624-02	.1953-02	.1953-02	.9000	.5661-04	.6807-04	.4393-01	.3284	530.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC50)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
745	3.041	7.990	40.06	-.3495-02	670.5	1312.	95.27	.6924-01	3.094	3823.	.1962-02	.7666-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
745	.4344-01	.2328-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
745	.97500	381.20	1288.0	.1265-02	.1522-02	.1522-02	.9000	.5496-04	.6610-04	.4276-01	.3192	533.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BOFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
765	.5049	7.900	39.98	-.3466-02	100.4	1250.	92.69	.1116-01	.4875	3729.	.3249-03	.7459-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
765	.1710-01	.5692-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
765	.97500	381.20	1288.0	.4219-03	.5102-03	.5102-03	.9000	.7214-05	.8724-05	.5208-02	.3900-01	527.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
759	1.001	7.940	39.99	-.4655-06	206.7	1270.	93.30	.2224-01	.9813	3760.	.6433-03	.7508-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
759	.2433-01	.4053-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
759	.97500	381.20	1288.0	.1149-02	.1386-02	.1386-02	.9000	.2794-04	.3372-04	.2069-01	.1548	529.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
753	2.020	7.980	40.04	-4678-06	434.4	1293.	94.11	.4523-01	2.016	3795.	.1297-02	.7573-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) #.0175
753	.3498-01	.2859-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
753	.97500	381.20	1288.0	.1533-02	.1847-02	.1847-02	.9000	.5364-04	.6459-04	.4087-01	.3056	530.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC51)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = 15.00 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
747	2.979	7.990	40.06	-4.686-06	660.0	1316.	95.56	.6816-01	3.046	3829.	.1925-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
747	.4312-01	.2351-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
747	.97500	381.20	1288.0	.1073-02	.1290-02	.1290-02	.9000	.4626-04	.5564-04	.3612-01	.2694	535.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 FUSELAGE

(R4UC52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
763	.4981	7.900	39.97	-.3462-02	99.31	1252.	92.84	.1104-01	.4822	3732.	.3209-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
763	.1701-01	.5729-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
763	.97500	381.20	1288.0	.1346-03	.1628-03	.1628-03	.9000	.2290-05	.2769-05	.1658-02	.1242-01	527.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

PAGE 584
(R4UC52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
761	1.006	7.940	39.99	-.4652-06	206.4	1265.	92.93	.2220-01	.9799	3752.	.6449-03	.7478-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) *.0175
761	.2429-01	.4046-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
761	.97500	381.20	1288.0	.1266-02	.1529-02	.1529-02	.9000	.3074-04	.3714-04	.2259-01	.1690	529.8

DATE 23 FEB 80

QH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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QH84B 60-0 FUSELAGE

(R4UC52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = 23.50 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
751	1.987	7.980	40.06	-.4685-06	435.2	1309.	95.27	.4531-01	2.020	3818.	.1284-02	.7667-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
751	.3508-01	.2878-01

TEST DATA

RUN NUMBER	XB/LB	Z0	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
751	.97500	381.20	1288.0	.1561-02	.1877-02	.1877-02	.9000	.5478-04	.6585-04	.4263-01	.3188	530.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL
OH84B 60-0 FUSELAGE

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(R4UC52)

FUSELAGE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = 7.500
BDFLAP = 23.50 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
749	2.958	7.990	40.06	-.4686-06	659.9	1322.	96.00	.6815-01	3.045	3838.	.1916-02	.7725-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
749	.4315-01	.2358-01

TEST DATA

RUN NUMBER	XB/LB	ZO	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
749	.97500	381.20	1288.0	.1571-02	.1888-02	.1888-02	.9000	.6780-04	.8148-04	.5340-01	.3986	534.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 LOWER NOSE

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(R4U0011)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 25.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = 49.00

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
5	3.644	8.000	24.96	.8346-02	847.3	1356.	98.24	.8678-01	3.888	3887.	.2384-02	.7905-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
5	.4898-01	.2119-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
5	.25200	4.5530	2037.0	.2890	.3577	.3577	.9000	.1416-01	.1752-01	9.992	66.03	649.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD02)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
157	2.008	7.980	29.94	-4.034	434.8	1299.	94.54	.4527-01	2.018	3804.	.1292-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
157	.3502-01	.2866-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
157	.25200	4.5530	2037.0	.3153	.3885	.3885	.9000	.1104-01	.1361-01	7.612	51.30	609.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD02)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
118	3.023	7.990	29.94	-4.046	673.4	1321.	95.92	.6954-01	3.108	3836.	.1957-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
118	.4359-01	.2333-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
118	.25200	4.5530	2037.0	.3174	.3924	.3924	.9000	.1383-01	.1711-01	9.555	63.75	630.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 590

OH84B 60-0 LOWER NOSE

(R4UD02)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
131	3.694	8.000	29.96	-4.050	855.1	1352.	97.95	.8759-01	3.924	3881.	.2414-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
131	.4918-01	.2106-01

TEST DATA

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
131	.25200	4.5530	2037.0	.3192	.3952	.3952	.9000	.1570-01	.1944-01	11.03	72.90	649.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 591

OH84B 60-0 LOWER NOSE

(R4UD03)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
154	2.002	7.980	29.96	-2.027	435.4	1303.	94.84	.4533-01	2.021	3810.	.1290-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
154	.3506-01	.2869-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
154	.25200	4.5530	2037.0	.3112	.3841	.3841	.9000	.1091-01	.1347-01	7.493	50.33	616.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 592

OH84B 60-0 LOWER NOSE

(R4UD03)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
115	3.006	7.990	29.95	-2.017	672.0	1324.	96.14	.6940-01	3.101	3841.	.1948-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
115	.4356-01	.2339-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
115	.25200	4.5530	2037.0	.3105	.3839	.3839	.9000	.1353-01	.1672-01	9.367	62.46	631.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 593

OH84B 60-0 LOWER NOSE

(R4UD03)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
128	3.686	8.000	29.95	-2.016	854.2	1353.	98.02	.8750-01	3.920	3883.	.2409-02	.7886-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
128	.4916-01	.2108-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
128	.25200	4.5530	2037.0	.3127	.3869	.3869	.9000	.1537-01	.1902-01	10.84	71.70	647.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD04)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
151	1.981	7.980	29.94	-1.004	435.3	1312.	95.49	.4532-01	2.020	3823.	.1281-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
151	.3510-01	.2882-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
151	.25200	4.5530	2037.0	.3070	.3774	.3774	.9000	.1078-01	.1325-01	7.572	51.04	608.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 595

OH84B 60-0 LOWER NOSE

(R4UD04)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
112	2.995	7.990	29.94	-1.000	673.3	1329.	96.50	.6953-01	3.107	3848.	.1945-02	.7766-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
112	.4363-01	.2342-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
112	.25200	4.5530	2037.0	.3078	.3795	.3795	.9000	.1343-01	.1656-01	9.433	63.05	626.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD04)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
125	3.687	8.000	29.96	-.9824	854.5	1353.	98.02	.8753-01	3.921	3883.	.2410-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
125	.4917-01	.2107-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
125	.25200	4.5530	2037.0	.3085	.3812	.3812	.9000	.1517-01	.1874-01	10.76	71.35	643.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD06)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
12	.5316	7.900	29.95	.7364-02	104.3	1239.	91.88	.1159-01	.5065	3712.	.3406-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
12	.1740-01	.5555-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
12	.25200	4.5530	2037.0	.3077	.3778	.3778	.9000	.5354-02	.6575-02	3.572	24.53	571.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD06)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
49	2.016	7.980	29.96	-.2452-02	435.6	1297.	94.40	.4535-01	2.021	3801.	.1297-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
49	.3504-01	.2861-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
49	.25200	4.5530	2037.0	.3025	.3725	.3725	.9000	.1060-01	.1305-01	7.313	49.35	606.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD06)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
78	3.052	7.990	29.97	-.2449-02	670.0	1308.	94.98	.6919-01	3.092	3817.	.1966-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
78	.4340-01	.2325-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
78	.25200	4.5530	2037.0	.3033	.3753	.3753	.9000	.1316-01	.1629-01	8.976	60.01	625.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 600

OH84B 60-0 LOWER NOSE

(R4UD06)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
121	3.693	8.000	29.97	.4899-02	853.8	1351.	97.87	.8746-01	3.918	3880.	.2412-02	.7876-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
121	.4913-01	.2106-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
121	.25200	4.5530	2037.0	.3042	.3754	.3754	.9000	.1495-01	.1845-01	10.64	70.72	638.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD07)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
148	2.006	7.980	29.97	-.4892-02	434.9	1300.	94.62	.4528-01	2.018	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
148	.3503-01	.2867-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
148	.25200	4.5530	2037.0	.3034	.3731	.3731	.9000	.1063-01	.1307-01	7.391	49.94	604.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD08)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
52	1.990	7.980	23.94	1.035	434.8	1307.	95.13	.4526-01	2.018	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
52	.3506-01	.2877-01

TEST DATA

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
52	.25200	4.5530	2037.0	.3004	.3691	.3691	.9000	.1053-01	.1294-01	7.390	49.92	604.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 LOWER NOSE

PAGE 603

(R4UD10)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 2.000 ELEVON = .0000
BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
56	1.998	7.980	29.94	2.039	435.1	1304.	94.91	.4530-01	2.019	3811.	.1288-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
56	.3505-01	.2872-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= YAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
56	.25200	4.5530	2037.0	.2951	.3628	.3628	.9000	.1035-01	.1272-01	7.225	48.80	605.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 604

OH84B 60-0 LOWER NOSE

(R4UD11)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
166	2.007	7.980	34.98	-4.060	435.1	1300.	94.62	.4530-01	2.019	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
166	.3504-01	.2866-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
166	.25200	4.5530	2037.0	.3292	.4079	.4079	.9000	.1154-01	.1429-01	7.774	51.97	625.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 605

OH84B 60-0 LOWER NOSE

(R4UD11)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
109	3.001	7.990	34.99	-4.047	671.6	1325.	96.21	.6936-01	3.099	3842.	.1946-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
109	.4355-01	.2340-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
109	.25200	4.5530	2037.0	.3273	.4078	.4078	.9000	.1425-01	.1776-01	9.563	63.08	653.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 606

OH84B 60-0 LOWER NOSE

(R4UD11)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
143	3.686	8.000	34.98	-4.043	854.1	1353.	98.02	.8749-01	3.919	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
143	.4915-01	.2108-01

TEST DATA

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
143	.25200	4.5530	2037.0	.3309	.4109	.4109	.9000	.1627-01	.2020-01	11.30	74.37	658.1

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O LOWER NOSE

(R4UD12)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
163	2.006	7.980	35.01	-1.994	434.8	1300.	94.62	.4527-01	2.018	3805.	.1291-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
163	.3503-01	.2867-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
163	.25200	4.5530	2037.0	.3226	.3988	.3988	.9000	.1130-01	.1397-01	7.683	51.52	619.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 608

OH84B 60-0 LOWER NOSE

(R4UD12)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
106	3.013	7.990	35.02	-1.984	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
106	.4349-01	.2337-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
106	.25200	4.5530	2037.0	.3231	.3997	.3997	.9000	.1405-01	.1739-01	9.674	64.51	631.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 609

OH84B 60-0 LOWER NOSE

(R4UD12)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
140	3.683	8.000	35.02	-1.979	853.5	1353.	98.02	.8743-01	3.917	3883.	.2407-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
140	.4914-01	.2109-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
140	.25200	4.5530	2037.0	.3243	.4016	.4016	.9000	.1594-01	.1973-01	11.20	74.05	649.6

DATE 23 FEB 80

QH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 610

QH84B 60-0 LOWER NOSE

(R4UD13)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
160	2.003	7.980	35.01	-.9963	435.2	1302.	94.76	.4531-01	2.020	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
160	.3505-01	.2869-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
160	.25200	4.5530	2037.0	.3194	.3937	.3937	.9000	.1119-01	.1380-01	7.715	51.91	612.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 LOWER NOSE

PAGE 611

(R4UD13)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
103	3.014	7.990	35.03	-.9919	669.2	1318.	95.71	.6911-01	3.088	3832.	.1949-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
103	.4343-01	.2337-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
103	.25200	4.5530	2037.0	.3206	.3958	.3958	.9000	.1392-01	.1719-01	9.656	64.60	624.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 612

OH84B 60-0 LOWER NOSE

(R4UD13)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
137	3.676	8.000	35.07	-.9690	851.9	1353.	98.02	.8726-01	3.909	3883.	.2403-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
137	.4909-01	.2111-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
137	.25200	4.5530	2037.0	.3205	.3971	.3971	.9000	.1573-01	.1949-01	11.04	72.91	651.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 613

OH84B 60-0 LOWER NOSE

(R4UD14)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
15	.5155	7.900	34.95	.2148-02	101.7	1243.	92.17	.1130-01	.4937	3718.	.3309-03	.7417-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
15	.1719-01	.5638-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
15	.25200	4.5530	2037.0	.3210	.3938	.3938	.9000	.5518-02	.6770-02	3.708	25.48	570.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 614

OH84B 60-0 LOWER NOSE

(R4UD14)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
62	1.995	7.980	34.99	-1400-02	434.9	1305.	94.98	.4527-01	2.018	3813.	.1287-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
62	.3505-01	.2874-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
62	.25200	4.5530	2037.0	.3190	.3924	.3924	.9000	.1118-01	.1376-01	7.798	52.61	607.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD14)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
81	3.030	7.990	35.02	-.6903-03	670.5	1315.	95.49	.6924-01	3.094	3827.	.1957-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
81	.4346-01	.2332-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
81	.25200	4.5530	2037.0	.3164	.3908	.3908	.9000	.1375-01	.1698-01	9.505	63.62	623.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 618

OH84B 60-0 LOWER NOSE

(R4UD14)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
134	3.680	8.000	35.02	-.6917-03	852.8	1353.	98.02	.8735-01	3.913	3883.	.2405-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
134	.4912-01	.2109-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
134	.25200	4.5530	2037.0	.3169	.3918	.3918	.9000	.1556-01	.1925-01	11.00	72.83	645.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 617

OH84B 60-0 LOWER NOSE

(R4UD15)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
203	.4973	7.900	39.90	-10.06	99.51	1255.	93.06	.1106-01	.4831	3736.	.3207-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
203	.1703-01	.5732-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
203	.25200	4.5530	2037.0	.3578	.4376	.4376	.9000	.6095-02	.7454-02	4.195	28.88	566.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 618

OH84B 60-0 LOWER NOSE

(R4UD15)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
190	1.004	7.940	39.95	-10.04	205.0	1261.	92.64	.2205-01	.9731	3746.	.6425-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
190	.2419-01	.4052-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
190	.25200	4.5530	2037.0	.3511	.4318	.4318	.9000	.8494-02	.1045-01	5.727	39.03	586.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 619

OH84B 60-0 LOWER NOSE

(R4UD15)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
172	2.004	7.980	39.98	-10.09	434.9	1301.	94.69	.4528-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
172	.3503-01	.2868-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
172	.25200	4.5530	2037.0	.3511	.4354	.4354	.9000	.1230-01	.1525-01	8.269	55.21	628.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 620

OH84B 60-0 LOWER NOSE

(R4UD15)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
100	3.008	7.990	40.00	-10.10	673.1	1325.	96.21	.6951-01	3.106	3842.	.1950-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
100	.4360-01	.2338-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
100	.25200	4.5530	2037.0 ATH	.3519	.4371	.4371	.9000	.1534-01	.1906-01	10.43	69.11	644.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 621

OH84B 60-0 LOWER NOSE

(R4UD17)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
200	.5083	7.900	39.97	-3.996	100.7	1247.	92.47	.1119-01	.4891	3724.	.3268-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
200	.1712-01	.5675-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
200	.25200	4.5530	2037.0	.3424	.4195	.4195	.9000	.5862-02	.7182-02	3.977	27.35	568.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 622

OH84B 60-0 LOWER NOSE

(R4UD17)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
187	1.008	7.940	39.96	-3.991	205.0	1257.	92.34	.2205-01	.9731	3740.	.6445-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
187	.2418-01	.4044-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
187	.25200	4.5530	2037.0	.3340	.4105	.4105	.9000	.8076-02	.9927-02	5.442	37.16	562.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 623

OH84B 60-0 LOWER NOSE

(R4UD17)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
178	2.003	7.980	39.97	-4.003	435.3	1302.	94.76	.4532-01	2.020	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
178	.3505-01	.2868-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
178	.25200	4.5530	2037.0	.3355	.4131	.4131	.9000	.1176-01	.1448-01	8.153	54.97	608.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 624

OH84B 60-0 LOWER NOSE

(R4UD17)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
96	2.988	7.990	40.00	-4.027	670.3	1327.	96.36	.6922-01	3.093	3845.	.1939-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
96	.4352-01	.2345-01

TEST DATA

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
96	.25200	4.5530	2037.0	.3351	.4152	.4152	.9000	.1458-01	.1807-01	10.02	66.59	639.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD18)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
197	.4998	7.900	39.96	-1.991	100.2	1257.	93.21	.1114-01	.4867	3739.	.3226-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
197	.1710-01	.5716-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
197	.25200	4.5530	2037.0	.3360	.4111	.4111	.9000	.5746-02	.7031-02	3.951	27.16	569.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD18)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
184	.9995	7.940	39.97	-2.001	204.9	1264.	92.86	.2204-01	.9726	3751.	.6406-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
184	.2420-01	.4059-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
184	.25200	4.5530	2037.0	.3284	.4028	.4028	.9000	.7947-02	.9746-02	5.438	37.20	579.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD18)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
175	1.988	7.980	39.99	-2.005	434.9	1308.	95.20	.4528-01	2.018	3817.	.1284-02	.7661-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
175	.3507-01	.2878-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
175	.25200	4.5530	2037.0	.3286	.4040	.4040	.9000	.1152-01	.1417-01	8.074	54.48	607.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD18)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
93	2.993	7.990	40.02	-2.035	672.1	1328.	96.43	.6941-01	3.102	3846.	.1943-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
93	.4359-01	.2343-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
93	.25200	4.5530	2037.0	.3278	.4040	.4040	.9000	.1429-01	.1761-01	10.06	67.29	623.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL
OH84B 60-0 LOWER NOSE

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(R4UD21)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
194	.5043	7.900	39.98	-1.003	100.4	1251.	92.77	.1116-01	.4876	3730.	.3247-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
194	.1710-01	.5695-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
194	.25200	4.5530	2037.0	.3336	.4080	.4080	.9000	.5706-02	.6978-02	3.914	26.96	564.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD21)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
181	.9960	7.940	39.97	-1.003	203.7	1262.	92.71	.2191-01	.9670	3748.	.6379-03	.7460-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
181	.2412-01	.4067-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
181	.25200	4.5530	2037.0	.3250	.3986	.3986	.9000	.7838-02	.9616-02	5.350	36.60	579.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD21)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
169	2.008	7.980	40.02	-1.013	435.3	1300.	94.62	.4532-01	2.020	3805.	.1293-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
169	.3505-01	.2866-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
169	.25200	4.5530	2037.0	.3259	.4026	.4026	.9000	.1142-01	.1411-01	7.787	52.27	617.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD21)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
88	3.008	7.990	40.09	-1.038	670.2	1321.	95.92	.6921-01	3.093	3836.	.1947-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
88	.4348-01	.2339-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
88	.25200	4.5530	2037.0	.3266	.4036	.4036	.9000	.1420-01	.1755-01	9.827	65.61	628.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD22)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
18	.5054	7.900	40.00	-.3140-02	100.3	1248.	92.54	.1114-01	.4869	3726.	.3250-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
18	.1708-01	.5691-01

TEST DATA

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
18	.25200	4.5530	2037.0	.3294	.4033	.4033	.9000	.5627-02	.6890-02	3.829	26.35	567.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD22)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
34	1.029	7.940	39.99	.1042-02	208.4	1254.	92.12	.2242-01	.9894	3736.	.6568-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
34	.2437-01	.4005-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
34	.25200	4.5530	2037.0	.3228	.3973	.3973	.9000	.7868-02	.9684-02	5.261	35.88	585.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD22)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
75	2.004	7.980	40.04	-1423-06	434.9	1301.	94.69	.4527-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
75	.3503-01	.2868-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
75	.25200	4.5530	2037.0	.3258	.4012	.4012	.9000	.1141-01	.1406-01	7.894	53.21	609.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD22)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
84	3.017	7.990	40.07	.2139-02	669.8	1318.	95.71	.6917-01	3.091	3832.	.1951-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
84	.4345-01	.2336-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
84	.25200	4.5530	2037.0	.3253	.4020	.4020	.9000	.1414-01	.1747-01	9.769	65.28	626.6

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-O LOWER NOSE

(R4UD22)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
147	3.672	8.000	40.10	-.2161-02	850.8	1353.	98.02	.8715-01	3.904	3883.	.2400-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
147	.4906-01	.2112-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
147	.25200	4.5530	2037.0	.3251	.4018	.4018	.9000	.1595-01	.1971-01	11.31	74.94	643.8

DATE 23 FEB 80

QH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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QH84B 60-0 LOWER NOSE

(R4UD24)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
87	3.025	7.990	40.26	.9099-02	670.1	1316.	95.56	.6920-01	3.092	3829.	.1955-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
87	.4345-01	.2333-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
87	.25200	4.5530	2037.0	.3252	.4021	.4021	.9000	.1413-01	.1747-01	9.726	64.97	627.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD25)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
22	.5090	7.900	40.03	1.039	101.5	1252.	92.84	.1123-01	.4927	3732.	.3279-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
22	.1719-01	.5668-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
22	.25200	4.5530	2037.0	.3251	.3983	.3983	.9000	.5590-02	.6849-02	3.808	26.16	570.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD25)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
37	1.021	7.940	40.06	1.019	207.3	1256.	92.27	.2230-01	.9842	3739.	.6523-03	.7425-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
37	.2432-01	.4020-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
37	.25200	4.5530	2037.0	.3184	.3917	.3917	.9000	.7742-02	.9525-02	5.195	35.44	584.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD25)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
72	2.004	7.980	40.09	1.028	435.4	1302.	94.76	.4533-01	2.021	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
72	.3506-01	.2868-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
72	.25200	4.5530	2037.0	.3218	.3961	.3961	.9000	.1128-01	.1389-01	7.830	52.82	607.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UD26)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
25	.5071	7.900	39.99	2.019	101.0	1251.	92.77	.1122-01	.4903	3730.	.3265-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
25	.1715-01	.5679-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
25	.25200	4.5530	2037.0	.3203	.3923	.3923	.9000	.5493-02	.6728-02	3.744	25.74	569.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 643

OH84B 60-0 LOWER NOSE

(R4UD26)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
40	1.021	7.940	40.02	2.016	206.8	1254.	92.12	.2225-01	.9818	3736.	.6518-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
40	.2428-01	.4021-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
40	.25200	4.5530	2037.0	.3148	.3871	.3871	.9000	.7643-02	.9399-02	5.130	35.03	582.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 644

OH84B 60-0 LOWER NOSE

(R4UD26)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
69	2.003	7.980	40.01	2.011	433.8	1299.	94.54	.4516-01	2.013	3804.	.1289-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
69	.3498-01	.2869-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
69	.25200	4.5530	2037.0	.3194	.3931	.3931	.9000	.1117-01	.1375-01	7.740	52.25	605.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 645

OH84B 60-0 LOWER NOSE

(R4UD27)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
28	.5063	7.900	40.02	4.000	100.5	1248.	92.54	.1116-01	.4878	3726.	.3256-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
28	.1710-01	.5686-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
28	.25200	4.5530	2037.0	.3118	.3820	.3820	.9000	.5331-02	.6531-02	3.618	24.88	568.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 646

OH84B 60-0 LOWER NOSE

(R4UD27)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
43	1.018	7.940	40.00	4.023	206.3	1254.	92.12	.2219-01	.9794	3736.	.6502-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
43	.2425-01	.4025-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
43	.25200	4.5530	2037.0	.3058	.3761	.3761	.9000	.7417-02	.9121-02	4.975	33.97	582.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 647

OH84B 60-0 LOWER NOSE

(R4UD27)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
65	1.997	7.980	40.03	4.032	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
65	.3502-01	.2873-01

TEST DATA

RUN NUMBER	Y0 MS	X0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
65	.25200	4.5530	2037.0	.3105	.3825	.3825	.9000	.1087-01	.1340-01	7.526	50.69	610.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 648

OH84B 60-0 LOWER NOSE

(R4UD28)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
31	.5055	7.900	40.08	9.971	100.7	1251.	92.77	.1119-01	.4887	3730.	.3255-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
31	.1712-01	.5688-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
31	.25200	4.5530	2037.0	.2856	.3495	.3495	.9000	.4890-02	.5985-02	3.344	23.01	566.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 649

OH84B 60-0 LOWER NOSE

(R4UD28)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
46	1.011	7.940	40.01	10.10	207.3	1254.	92.86	.2230-01	.9842	3751.	.6482-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
46	.2434-01	.4035-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
46	.25200	4.5530	2037.0	.2803	.3437	.3437	.9000	.6823-02	.0367-02	4.673	31.97	578.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 650

OH84B 80-0 LOWER NOSE

(R4UD28)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
BDFLAP = .0000 SPDRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
59	1.995	7.980	40.01	10.00	433.9	1303.	94.84	.4517-01	2.014	3810.	.1286-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
59	.3500-01	.2874-01

TEST DATA

RUN NUMBER	YO MS	XO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
59	.25200	4.5530	2037.0	.2828	.3475	.3475	.9000	.9897-02	.1216-01	6.924	46.81	603.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 651

OH84B 60-0 LOWER NOSE

(R4UE01)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 25.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = 49.00

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 ⁶	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT ³	MU LB-SEC /FT ²
5	3.644	8.000	24.96	.8346-02	847.3	1356.	98.24	.8678-01	3.888	3887.	.2384-02	.7905-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
5	.4898-01	.2119-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
5	4.5150	5.6960	2039.0	.2403	.2944	.2944	.9000	.1177-01	.1442-01	8.683	51.80	618.0
5	4.5410	5.5240	2038.0	.2586	.3185	.3185	.9000	.1267-01	.1560-01	9.129	58.93	634.9
5	6.3610	5.2660	2045.0	.1180	.1439	.1439	.9000	.5779-02	.7046-02	4.357	33.68	601.8
5	6.3610	5.4700	2046.0	.8608-01	.1044	.1044	.9000	.4216-02	.5112-02	3.262	23.76	582.1
5	6.3610	5.6730	2047.0	.6722-01	.8134-01	.8134-01	.9000	.3292-02	.3984-02	2.570	18.19	574.9
5	8.6100	4.8930	2065.0	.3579-01	.4317-01	.4317-01	.9000	.1753-02	.2114-02	1.389	10.22	562.9
5	8.6100	5.3880	2070.0	.5986-01	.7246-01	.7246-01	.9000	.2932-02	.3549-02	2.285	16.70	576.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 652

OH84B 60-0 LOWER NOSE

(R4UE02)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
157	2.008	7.980	29.94	-4.034	434.8	1299.	94.54	.4527-01	2.018	3804.	.1292-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
157	.3502-01	.2866-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
157	4.5150	5.6960	2039.0	.2579	.3152	.3152	.9000	.9031-02	.1104-01	6.445	39.08	584.9
157	4.5410	5.5240	2038.0	.2847	.3496	.3496	.9000	.9972-02	.1224-01	6.979	45.85	598.8
157	6.3610	5.2660	2045.0	.1461	.1783	.1783	.9000	.5117-02	.6246-02	3.678	28.74	579.9
157	6.3610	5.4700	2046.0	.1074	.1304	.1304	.9000	.3760-02	.4566-02	2.767	20.36	562.7
157	6.3610	5.6730	2047.0	.8357-01	.1013	.1013	.9000	.2927-02	.3548-02	2.170	15.49	557.2
157	8.6100	4.8930	2065.0	.4513-01	.5456-01	.5456-01	.9000	.1580-02	.1911-02	1.187	8.804	547.3
157	8.6100	5.3880	2070.0	.8255-01	.1002	.1002	.9000	.2891-02	.3509-02	2.131	15.68	561.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 653

OH84B 60-0 LOWER NOSE

(R4UE02)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
118	3.023	7.990	29.94	-4.046	673.4	1321.	95.92	.6954-01	3.108	3836.	.1957-02	.7719-07

RJN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
118	.4359-01	.2333-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
118	4.5150	5.6960	2039.0	.2615	.3201	.3201	.9000	.1140-01	.1395-01	8.229	49.55	598.8
118	4.5410	5.5240	2038.0	.2874	.3538	.3538	.9000	.1253-01	.1542-01	8.822	57.45	616.5
118	6.3610	5.2660	2045.0	.1439	.1757	.1757	.9000	.6271-02	.7657-02	4.575	35.55	591.1
118	6.3610	5.4700	2046.0	.1090	.1323	.1323	.9000	.4750-02	.5765-02	3.562	26.10	570.7
118	6.3610	5.6730	2047.0	.8464-01	.1025	.1025	.9000	.3689-02	.4469-02	2.794	19.89	563.3
118	8.6100	4.8930	2065.0	.4600-01	.5558-01	.5558-01	.9000	.2005-02	.2423-02	1.536	11.34	554.7
118	8.6100	5.3880	2070.0	.8378-01	.1017	.1017	.9000	.3652-02	.4432-02	2.739	20.07	570.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 654

OH84B 60-0 LOWER NOSE

(R4UE02)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
131	3.694	8.000	29.96	-4.050	855.1	1352.	97.95	.8759-01	3.924	3881.	.2414-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
131	.4918-01	.2106-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
131	4.5150	5.6960	2039.0	.2638	.3229	.3229	.9000	.1297-01	.1588-01	9.588	57.35	612.7
131	4.5410	5.5240	2038.0	.2862	.3515	.3515	.9000	.1407-01	.1729-01	10.23	66.37	624.7
131	6.3610	5.2660	2045.0	.1435	.1752	.1752	.9000	.7055-02	.8615-02	5.268	40.66	605.0
131	6.3610	5.4700	2046.0	.1094	.1327	.1327	.9000	.5380-02	.6525-02	4.146	30.22	581.1
131	6.3610	5.6730	2047.0	.8498-01	.1028	.1028	.9000	.4179-02	.5056-02	3.255	23.06	572.7
131	8.6100	4.8930	2065.0	.4698-01	.5759-01	.5669-01	.9000	.2310-02	.2788-02	1.824	13.42	562.4
131	8.6100	5.3880	2070.0	.8294-01	.1106	.1006	.9000	.4079-02	.4947-02	3.142	22.90	581.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 655

OH84B 60-0 LOWER NOSE

(R4UE03)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
154	2.002	7.980	29.96	-2.027	435.4	1303.	94.84	.4533-01	2.021	3810.	.1290-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
154	.3506-01	.2869-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
154	4.5150	5.6960	2039.0	.2482	.3035	.3035	.9000	.8704-02	.1064-01	6.225	37.69	587.6
154	4.5410	5.5240	2038.0	.2751	.3380	.3380	.9000	.9645-02	.1185-01	6.749	44.25	602.9
154	6.3610	5.2660	2045.0	.1358	.1658	.1658	.9000	.4763-02	.5814-02	3.431	26.78	582.3
154	6.3610	5.4700	2046.0	.9687-01	.1176	.1176	.9000	.3397-02	.4124-02	2.509	18.44	564.1
154	6.3610	5.6730	2047.0	.7534-01	.9135-01	.9135-01	.9000	.2642-02	.3203-02	1.963	14.00	559.4
154	8.6100	4.8930	2065.0	.4488-01	.5433-01	.5433-01	.9000	.1574-02	.1905-02	1.180	8.719	553.2
154	8.6100	5.3880	2070.0	.7192-01	.8733-01	.8733-01	.9000	.2522-02	.3062-02	1.861	13.68	564.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 656

OH84B 60-0 LOWER NOSE

(R4UE03)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
115	3.006	7.990	29.95	-2.017	672.0	1324.	96.14	.6940-01	3.101	3841.	.1948-02	.7736-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
115	.4356-01	.2339-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
115	4.5150	5.6960	2039.0	.2479	.3031	.3031	.9000	.1080-01	.1320-01	7.844	47.27	597.2
115	4.5410	5.5240	2038.0	.2753	.3386	.3386	.9000	.1199-01	.1475-01	8.488	55.30	615.8
115	6.3610	5.2660	2045.0	.1364	.1664	.1664	.9000	.5943-02	.7249-02	4.366	33.96	589.1
115	6.3610	5.4700	2046.0	.9768-01	.1184	.1184	.9000	.4255-02	.5159-02	3.215	23.59	568.0
115	6.3610	5.6730	2047.0	.7466-01	.9033-01	.9033-01	.9000	.3252-02	.3935-02	2.481	17.68	560.8
115	8.6100	4.8930	2065.0	.4516-01	.5455-01	.5455-01	.9000	.1967-02	.2376-02	1.513	11.17	554.7
115	8.6100	5.3880	2070.0	.7147-01	.8663-01	.8663-01	.9000	.3113-02	.3773-02	2.355	17.28	567.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE03)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
128	3.696	8.000	29.95	-2.016	854.2	1353.	98.02	.8750-01	3.920	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
128	.4916-01	.2108-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
128	4.5150	5.6960	2039.0	.2509	.3066	.3066	.9000	.1233-01	.1507-01	9.182	55.03	608.2
128	4.5410	5.5240	2039.0	.2753	.3378	.3378	.9000	.1353-01	.1660-01	9.901	64.34	621.1
128	6.3610	5.2660	2045.0	.1373	.1673	.1673	.9000	.6749-02	.8226-02	5.083	39.34	599.4
128	6.3610	5.4700	2046.0	.9870-01	.1195	.1195	.9000	.4852-02	.5873-02	3.775	27.61	574.6
128	6.3610	5.6730	2047.0	.7534-01	.9099-01	.9099-01	.9000	.3704-02	.4473-02	2.912	20.70	566.3
128	8.6100	4.8930	2065.0	.4713-01	.5683-01	.5683-01	.9000	.2317-02	.2794-02	1.836	13.53	560.1
128	8.6100	5.3880	2070.0	.7301-01	.8837-01	.8837-01	.9000	.3589-02	.4344-02	2.793	20.43	574.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 658

OH84B 60-0 LOWER NOSE

(R4UE04)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
151	1.981	7.980	29.94	-1.004	435.3	1312.	95.49	.4532-01	2.020	3823.	.1281-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
151	.3510-01	.2892-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
151	4.5150	5.6960	2039.0	.2360	.2877	.2877	.9000	.8283-02	.1010-01	6.047	36.73	581.6
151	4.5410	5.5240	2038.0	.2687	.3290	.3290	.9000	.9432-02	.1155-01	6.747	44.38	596.3
151	6.3610	5.2660	2045.0	.1320	.1607	.1607	.9000	.4634-02	.5642-02	3.401	26.61	577.7
151	6.3610	5.4700	2046.0	.9161-01	.1110	.1110	.9000	.3216-02	.3895-02	2.419	17.83	559.3
151	6.3610	5.6730	2047.0	.7060-01	.8541-01	.8541-01	.9000	.2478-02	.2998-02	1.875	13.40	555.0
151	8.6100	4.8930	2065.0	.4343-01	.5247-01	.5247-01	.9000	.1525-02	.1842-02	1.161	8.595	550.2
151	8.6100	5.3880	2070.0	.6774-01	.8204-01	.8204-01	.9000	.2378-02	.2880-02	1.789	13.18	559.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 659

OH84B 60-0 LOWER NOSE

(R4UE04)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
112	2.995	7.990	29.94	-1.000	673.3	1329.	96.50	.6953-01	3.107	3848.	.1945-02	.7766-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
112	.4363-01	.2342-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
112	4.5150	5.6960	2039.0	.2391	.2918	.2918	.9000	.1043-01	.1273-01	7.682	46.40	592.3
112	4.5410	5.5240	2038.0	.2702	.3316	.3316	.9000	.1179-01	.1447-01	8.465	55.28	610.7
112	6.3610	5.2660	2045.0	.1316	.1603	.1603	.9000	.5742-02	.6992-02	4.268	33.26	585.4
112	6.3610	5.4700	2046.0	.9229-01	.1117	.1117	.9000	.4026-02	.4873-02	3.080	22.65	563.7
112	6.3610	5.6730	2047.0	.7010-01	.8468-01	.8468-01	.9000	.3058-02	.3694-02	2.360	16.85	557.1
112	8.6100	4.8930	2065.0	.4451-01	.5372-01	.5372-01	.9000	.1942-02	.2344-02	1.506	11.13	553.1
112	8.6100	5.3880	2070.0	.6825-01	.8259-01	.8259-01	.9000	.2978-02	.3603-02	2.279	16.76	563.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE04)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
125	3.687	8.000	29.96	-.9824	854.5	1353.	98.02	.8753-01	3.921	3883.	.2410-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
125	.4917-01	.2107-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
125	4.5150	5.6960	2039.0	.2406	.2937	.2937	.9000	.1183-01	.1444-01	8.862	53.23	603.7
125	4.5410	5.5240	2038.0	.2712	.3332	.3332	.9000	.1334-01	.1638-01	9.702	62.92	625.1
125	6.3610	5.2660	2045.0	.1327	.1617	.1617	.9000	.6525-02	.7948-02	4.930	38.20	597.1
125	6.3610	5.4700	2046.0	.9313-01	.1126	.1126	.9000	.4579-02	.5538-02	3.575	26.18	571.9
125	6.3610	5.6730	2047.0	.7045-01	.8503-01	.8503-01	.9000	.3484-02	.4181-02	2.731	19.43	564.1
125	8.6100	4.8930	2065.0	.4563-01	.5500-01	.5500-01	.9000	.2243-02	.2704-02	1.781	13.13	558.8
125	8.6100	5.3880	2070.0	.6887-01	.8329-01	.8329-01	.9000	.3386-02	.4095-02	2.645	19.38	571.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE06)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
12	.5316	7.900	29.95	.7364-02	104.3	1239.	91.88	.1159-01	.5065	3712.	.3406-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
12	.1740-01	.5555-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
12	4.5150	5.6960	2039.0	.2332	.2851	.2851	.9000	.4058-02	.4962-02	2.758	16.94	559.0
12	4.5410	5.5240	2038.0	.2668	.3270	.3270	.9000	.4643-02	.5690-02	3.126	20.88	565.4
12	6.3610	5.2660	2045.0	.1157	.1413	.1413	.9000	.2013-02	.2460-02	1.373	10.85	556.7
12	6.3610	5.4700	2046.0	.8902-01	.1086	.1086	.9000	.1549-02	.1889-02	1.066	7.894	550.3
12	6.3610	5.6730	2047.0	.5864-01	.8364-01	.8364-01	.9000	.1194-02	.1456-02	.8249	5.916	548.1
12	8.6100	4.8930	2065.0	.4286-01	.5218-01	.5218-01	.9000	.7459-03	.9081-03	.5172	3.838	545.3
12	8.6100	5.3880	2070.0	.6422-01	.7829-01	.7829-01	.9000	.1118-02	.1362-02	.7705	5.707	549.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE06)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
49	2.016	7.980	29.96	-.2452-02	435.6	1297.	94.40	.4535-01	2.021	3801.	.1297-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
49	.3504-01	.2861-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
49	4.5150	5.6960	2039.0	.2304	.2812	.2812	.9000	.8074-02	.9854-02	5.795	35.24	578.9
49	4.5410	5.5240	2038.0	.2633	.3228	.3228	.9000	.9226-02	.1131-01	6.485	42.71	593.7
49	6.3610	5.2660	2045.0	.1266	.1543	.1543	.9000	.4435-02	.5406-02	3.202	25.09	574.7
49	6.3610	5.4700	2046.0	.8707-01	.1056	.1056	.9000	.3051-02	.3700-02	2.257	16.65	556.9
49	6.3610	5.6730	2047.0	.6665-01	.8072-01	.8072-01	.9000	.2336-02	.2829-02	1.737	12.43	552.7
49	8.6100	4.8930	2065.0	.4317-01	.5222-01	.5222-01	.9000	.1513-02	.1830-02	1.131	8.381	548.8
49	8.6100	5.3880	2070.0	.6210-01	.7531-01	.7531-01	.9000	.2176-02	.2639-02	1.610	11.88	557.0

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE06)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
78	3.052	7.990	29.97	-.2449-02	670.0	1308.	94.98	.6919-01	3.092	3817.	.1966-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
78	.4340-01	.2325-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	ODOT BTU/ FT2SEC	DTWDT DEG. F /SEC	TW DEG. R
78	4.5150	5.6960	2039.0	.2333	.2854	.2854	.9000	.1012-01	.1239-01	7.247	43.79	591.8
78	4.5410	5.5240	2038.0	.2647	.3258	.3258	.9000	.1149-01	.1414-01	8.014	52.35	610.2
78	6.3610	5.2660	2045.0	.1275	.1558	.1558	.9000	.5536-02	.6763-02	3.990	31.07	586.9
78	6.3610	5.4700	2046.0	.8839-01	.1073	.1073	.9000	.3836-02	.4655-02	2.852	20.97	564.1
78	6.3610	5.6730	2047.0	.6685-01	.8097-01	.8097-01	.9000	.2901-02	.3514-02	2.176	15.53	557.6
78	8.6100	4.8930	2065.0	.4440-01	.5373-01	.5373-01	.9000	.1927-02	.2332-02	1.452	10.72	554.4
78	8.6100	5.3880	2070.0	.6452-01	.7830-01	.7830-01	.9000	.2800-02	.3398-02	2.081	15.30	564.5

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE06)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
121	3.693	8.000	29.97	.4899-02	853.8	1351.	97.87	.8746-01	3.918	3880.	.2412-02	.7876-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
121	.4913-01	.2106-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
121	4.5150	5.6960	2039.0	.2327	.2836	.2836	.9000	.1143-01	.1394-01	8.597	51.77	598.7
121	4.5410	5.5240	2038.0	.2645	.3245	.3245	.9000	.1299-01	.1594-01	9.493	61.71	620.2
121	6.3610	5.2660	2045.0	.1273	.1549	.1549	.9000	.6254-02	.7609-02	4.742	36.83	592.4
121	6.3610	5.4700	2046.0	.8783-01	.1061	.1061	.9000	.4315-02	.5214-02	3.382	24.83	566.9
121	6.3610	5.6730	2047.0	.6616-01	.7978-01	.7978-01	.9000	.3251-02	.3920-02	2.573	18.35	559.3
121	8.6100	4.8930	2065.0	.4536-01	.5465-01	.5465-01	.9000	.2228-02	.2685-02	1.769	13.05	556.9
121	8.6100	5.3880	2070.0	.6371-01	.7697-01	.7697-01	.9000	.3130-02	.3782-02	2.455	18.03	566.4

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE07)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
148	2.006	7.980	29.97	-.4892-02	434.9	1300.	94.62	.4528-01	2.018	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
148	.3503-01	.2867-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
148	4.5150	5.6960	2039.0	.2280	.2781	.2781	.9000	.7986-02	.9742-02	5.761	35.05	578.3
148	4.5410	5.5240	2038.0	.2631	.3223	.3223	.9000	.9216-02	.1129-01	6.520	42.97	592.2
148	6.3610	5.2660	2045.0	.1322	.1611	.1611	.9000	.4631-02	.5643-02	3.368	26.31	574.6
148	6.3610	5.4700	2046.0	.8633-01	.1047	.1047	.9000	.3024-02	.3666-02	2.245	16.56	557.3
148	6.3610	5.6730	2047.0	.6566-01	.7951-01	.7951-01	.9000	.2300-02	.2785-02	1.716	12.27	553.6
148	8.6100	4.8930	2065.0	.4257-01	.5148-01	.5148-01	.9000	.1491-02	.1803-02	1.120	8.293	548.9
148	8.6100	5.3880	2070.0	.6272-01	.7601-01	.7601-01	.9000	.2197-02	.2663-02	1.633	12.05	556.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 666

OH84B 60-0 LOWER NOSE

(R4UE08)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
52	1.990	7.980	29.94	1.035	434.8	1307.	95.13	.4526-01	2.018	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
52	.3506-01	.2877-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
52	4.5150	5.6960	2039.0	.2230	.2716	.2716	.9000	.7819-02	.9522-02	5.710	34.77	576.3
52	4.5410	5.5240	2038.0	.2578	.3154	.3154	.9000	.9037-02	.1106-01	6.465	42.63	591.3
52	6.3610	5.2660	2045.0	.1231	.1498	.1498	.9000	.4316-02	.5250-02	3.169	24.86	572.4
52	6.3610	5.4700	2046.0	.8169-01	.9886-01	.9886-01	.9000	.2864-02	.3466-02	2.155	15.92	554.2
52	6.3610	5.6730	2047.0	.6239-01	.7541-01	.7541-01	.9000	.2187-02	.2644-02	1.655	11.86	550.1
52	8.6100	4.8930	2065.0	.4287-01	.5179-01	.5179-01	.9000	.1503-02	.1815-02	1.140	8.448	548.1
52	8.6100	5.3880	2070.0	.5857-01	.7088-01	.7088-01	.9000	.2053-02	.2485-02	1.545	11.42	554.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 667

OH84B 60-0 LOWER NOSE

(R4UE10)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
56	1.998	7.980	29.94	2.039	435.1	1304.	94.91	.4530-01	2.019	3811.	.1288-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
56	.3505-01	.2872-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
56	4.5150	5.6960	2039.0	.2162	.2633	.2633	.9000	.7578-02	.9231-02	5.516	33.59	575.8
56	4.5410	5.5240	2038.0	.2516	.3079	.3079	.9000	.8820-02	.1079-01	6.285	41.45	591.0
56	6.3610	5.2660	2045.0	.1198	.1457	.1457	.9000	.4198-02	.5107-02	3.074	24.12	571.4
56	6.3610	5.4700	2046.0	.7861-01	.9515-01	.9515-01	.9000	.2756-02	.3336-02	2.067	15.27	553.7
56	6.3610	5.6730	2047.0	.5853-01	.7075-01	.7075-01	.9000	.2052-02	.2480-02	1.549	11.11	548.7
56	8.6100	4.8930	2065.0	.4303-01	.5199-01	.5199-01	.9000	.1508-02	.1823-02	1.141	8.456	547.5
56	8.6100	5.3880	2070.0	.5431-01	.6570-01	.6570-01	.9000	.1904-02	.2303-02	1.431	10.58	552.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 668

OH84B 60-0 LOWER NOSE

(R4UE11)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
166	2.007	7.980	34.98	-4.060	435.1	1300.	94.62	.4530-01	2.019	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
166	.3504-01	.2866-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
166	4.5150	5.6960	2039.0	.2529	.3099	.3099	.9000	.8862-02	.1086-01	6.266	37.85	592.6
166	4.5410	5.5240	2038.0	.2896	.3569	.3569	.9000	.1015-01	.1251-01	6.988	45.63	610.9
166	6.3610	5.2660	2045.0	.1578	.1934	.1934	.9000	.5530-02	.6777-02	3.906	30.32	593.4
166	6.3610	5.4700	2046.0	.1083	.1319	.1319	.9000	.3796-02	.4620-02	2.766	20.26	571.1
166	6.3610	5.6730	2047.0	.8295-01	.1008	.1008	.9000	.2906-02	.3532-02	2.133	15.16	565.7
166	8.6100	4.8930	2065.0	.5429-01	.6587-01	.6587-01	.9000	.1902-02	.2308-02	1.406	10.35	560.6
166	8.6100	5.3880	2070.0	.8561-01	.1043	.1043	.9000	.3000-02	.3653-02	2.180	15.95	573.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 669

OH84B 60-0 LOWER NOSE

(R4UE11)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVOR = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
109	3.001	7.990	34.99	-4.047	671.6	1325.	96.21	.6936-01	3.099	3842.	.1946-02	.7742*07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
109	.4355-01	.2340-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
109	4.5150	5.6960	2039.0	.2584	.3173	.3173	.9000	.1126-01	.1382-01	8.036	48.11	610.7
109	4.5410	5.5240	2038.0	.2911	.3603	.3603	.9000	.1268-01	.1569-01	8.743	56.43	635.0
109	6.3610	5.2660	2045.0	.1535	.1882	.1882	.9000	.6685-02	.8197-02	4.798	37.00	606.9
109	6.3610	5.4700	2046.0	.1104	.1343	.1343	.9000	.4810-02	.5847-02	3.591	26.22	578.0
109	6.3610	5.6730	2047.0	.8446-01	.1024	.1024	.9000	.3679-02	.4460-02	2.781	19.74	568.7
109	8.6100	4.8930	2065.0	.5902-01	.7147-01	.7147-01	.9000	.2570-02	.3113-02	1.954	14.36	564.4
109	8.6100	5.3880	2070.0	.8598-01	.1045	.1045	.9000	.3745-02	.4551-02	2.799	20.44	577.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 670

OH84B 60-0 LOWER NOSE

(R4UE11)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
143	3.686	8.000	34.98	-4.043	854.1	1353.	98.02	.8749-01	3.919	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
143	.4915-01	.2108-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
143	4.5150	5.6960	2039.0	.2536	.3103	.3103	.9000	.1247-01	.1525-01	9.229	55.20	612.4
143	4.5410	5.5240	2038.0	.2894	.3559	.3559	.9000	.1422-01	.1750-01	10.28	66.56	629.6
143	6.3610	5.2660	2045.0	.1567	.1918	.1918	.9000	.7700-02	.9427-02	5.687	43.70	614.2
143	6.3610	5.4700	2046.0	.1098	.1332	.1332	.9000	.5397-02	.6550-02	4.150	30.21	583.8
143	6.3610	5.6730	2047.0	.8353-01	.1011	.1011	.9000	.4106-02	.4970-02	3.195	22.62	574.5
143	8.6100	4.8930	2065.0	.5627-01	.6799-01	.6799-01	.9000	.2766-02	.3342-02	2.172	15.94	567.6
143	8.6100	5.3880	2070.0	.8618-01	.1046	.1046	.9000	.4236-02	.5143-02	3.250	23.64	585.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 671

OH84B 60-0 LOWER NOSE

(R4UE12)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
163	2.006	7.980	35.01	-1.994	434.8	1300.	94.62	.4527-01	2.018	3805.	.1291-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
163	.3503-01	.2867-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
163	4.5150	5.6960	2039.0	.2369	.2897	.2897	.9000	.8297-02	.1015-01	5.920	35.87	586.2
163	4.5410	5.5240	2038.0	.2784	.3424	.3424	.9000	.9751-02	.1199-01	6.780	44.42	604.3
163	6.3610	5.2660	2045.0	.1442	.1764	.1764	.9000	.5051-02	.6178-02	3.597	28.01	587.5
163	6.3610	5.4700	2046.0	.9735-01	.1183	.1183	.9000	.3410-02	.4143-02	2.505	18.41	564.9
163	6.3610	5.6730	2047.0	.7413-01	.8992-01	.8992-01	.9000	.2596-02	.3150-02	1.921	13.70	559.8
163	8.6100	4.8930	2065.0	.5399-01	.6546-01	.6546-01	.9000	.1891-02	.2293-02	1.403	10.35	557.7
163	8.6100	5.3880	2070.0	.7511-01	.9129-01	.9129-01	.9000	.2631-02	.3198-02	1.928	14.15	566.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 672

OH84B 60-0 LOWER NOSE

(R4UE12)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
106	3.013	7.990	35.02	-1.984	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
106	.4349-01	.2337-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
106	4.5150	5.6960	2039.0	.2397	.2927	.2927	.9000	.1042-01	.1273-01	7.596	45.92	591.0
106	4.5410	5.5240	2038.0	.2797	.3439	.3439	.9000	.1216-01	.1496-01	8.593	56.06	613.1
106	6.3610	5.2660	2045.0	.1472	.1798	.1798	.9000	.6404-02	.7819-02	4.668	36.28	590.8
106	6.3610	5.4700	2046.0	.9897-01	.1199	.1199	.9000	.4305-02	.5216-02	3.250	23.89	564.6
106	6.3610	5.6730	2047.0	.7394-01	.8942-01	.8942-01	.9000	.3216-02	.3883-02	2.452	17.51	557.1
106	8.6100	4.8930	2065.0	.5527-01	.6683-01	.6683-01	.9000	.2404-02	.2907-02	1.834	13.53	556.8
106	8.6100	5.3880	2070.0	.7544-01	.9146-01	.9146-01	.9000	.3281-02	.3978-02	2.471	18.15	566.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 673

OH84B 60-0 LOWER NOSE

(R4UE12)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
140	3.683	8.000	35.02	-1.979	853.5	1353.	98.02	.8743-01	3.917	3883.	.2407-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
140	.4914-01	.2109-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
140	4.5150	5.6960	2039.0	.2369	.2892	.2892	.9000	.1164-01	.1421-01	8.716	52.35	604.1
140	4.5410	5.5240	2038.0	.2772	.3400	.3400	.9000	.1362-01	.1671-01	9.972	64.82	620.5
140	6.3610	5.2660	2045.0	.1459	.1781	.1781	.9000	.7167-02	.8752-02	5.355	41.32	605.6
140	6.3610	5.4700	2046.0	.9910-01	.1200	.1200	.9000	.4870-02	.5696-02	3.783	27.65	575.7
140	6.3610	5.6730	2047.0	.7392-01	.8930-01	.8930-01	.9000	.3632-02	.4388-02	2.853	20.27	567.2
140	8.6100	4.8930	2065.0	.5518-01	.6664-01	.6664-01	.9000	.2712-02	.3275-02	2.133	15.67	565.9
140	8.6100	5.3880	2070.0	.7642-01	.9260-01	.9260-01	.9000	.3755-02	.4550-02	2.908	21.22	578.4

DATE 23 FEB 80

OH84B MODEL 60-O IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 674

OH84B 60-O LOWER NOSE

(R4UE13)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
160	2.003	7.980	35.01	-.9963	435.2	1302.	94.76	.4531-01	2.020	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
160	.3505-01	.2869-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
160	4.5150	5.6960	2039.0	.2279	.2780	.2780	.9000	.7987-02	.9744-02	5.766	35.05	579.8
160	4.5410	5.5240	2038.0	.2724	.3342	.3342	.9000	.9548-02	.1171-01	6.724	44.20	597.4
160	6.3610	5.2660	2045.0	.1426	.1741	.1741	.9000	.4998-02	.6101-02	3.598	28.09	581.8
160	6.3610	5.4700	2046.0	.9233-01	.1120	.1120	.9000	.3236-02	.3925-02	2.400	17.68	560.1
160	6.3610	5.5730	2047.0	.6951-01	.8420-01	.8420-01	.9000	.2436-02	.2951-02	1.818	12.99	555.6
160	8.6100	4.8930	2065.0	.5305-01	.6423-01	.6423-01	.9000	.1859-02	.2251-02	1.390	10.27	554.1
160	8.6100	5.3880	2070.0	.6979-01	.8468-01	.8468-01	.9000	.2446-02	.2968-02	1.810	13.33	561.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 675

OH84B 60-0 LOWER NOSE

(R4UE13)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
103	3.014	7.990	35.03	-.9919	669.2	1318.	95.71	.6911-01	3.088	3832.	.1949-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
103	.4343-01	.2337-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
103	4.5150	5.6960	2039.0	.2268	.2766	.2766	.9000	.9850-02	.1201-01	7.210	43.70	585.7
103	4.5410	5.5240	2038.0	.2737	.3360	.3360	.9000	.1189-01	.1459-01	8.452	55.31	606.7
103	6.3610	5.2660	2045.0	.1423	.1736	.1736	.9000	.6182-02	.7538-02	4.526	35.27	585.5
103	6.3610	5.4700	2046.0	.9364-01	.1134	.1134	.9000	.4067-02	.4925-02	3.077	22.66	561.1
103	6.3610	5.6730	2047.0	.6943-01	.8392-01	.8392-01	.9000	.3016-02	.3645-02	2.301	16.45	554.6
103	8.6100	4.8930	2065.0	.5379-01	.6505-01	.6505-01	.9000	.2336-02	.2825-02	1.778	13.12	556.5
103	8.6100	5.3880	2070.0	.7058-01	.8551-01	.8551-01	.9000	.3066-02	.3714-02	2.314	17.02	562.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 676

OH84B 60-0 LOWER NOSE

(R4UE13)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
137	3.676	8.000	35.07	- .9690	851.9	1353.	98.02	.8726-01	3.909	3883.	.2403-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
137	.4909-01	.2111-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
137	4.5150	5.6960	2039.0	.2322	.2833	.2833	.9000	.1140-01	.1391-01	8.540	51.31	603.4
137	4.5410	5.5240	2038.0	.2720	.3337	.3337	.9000	.1335-01	.1638-01	9.773	63.51	620.8
137	6.3610	5.2660	2045.0	.1431	.1747	.1747	.9000	.7025-02	.8575-02	5.255	40.57	604.6
137	6.3610	5.4700	2046.0	.9527-01	.1153	.1153	.9000	.4677-02	.5660-02	3.643	26.65	573.7
137	6.3610	5.6730	2047.0	.7089-01	.8559-01	.8559-01	.9000	.3480-02	.4202-02	2.741	19.49	565.0
137	8.6100	4.8930	2065.0	.5565-01	.6720-01	.6720-01	.9000	.2732-02	.3299-02	2.152	15.81	565.1
137	8.6100	5.3880	2070.0	.7286-01	.8819-01	.8819-01	.9000	.3577-02	.4323-02	2.783	20.35	574.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 677

OH84B 60-0 LOWER NOSE

(R4UE14)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
15	.5155	7.900	34.95	.2148-02	101.7	1243.	92.17	.1130-01	.4937	3718.	.3309-03	.7417-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
15	.1719-01	.5638-01

TEST DATA

RUN NUMBER	X0 MS	Z0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
15	4.5150	5.6960	2039.0	.2225	.2717	.2717	.9000	.3826-02	.4670-02	2.628	16.17	555.6
15	4.5410	5.5240	2038.0	.2701	.3306	.3306	.9000	.4644-02	.5684-02	3.155	21.09	563.4
15	6.3610	5.2660	2045.0	.1375	.1679	.1679	.9000	.2363-02	.2886-02	1.622	12.83	556.3
15	6.3610	5.4700	2046.0	.8947-01	.1089	.1089	.9000	.1538-02	.1872-02	1.071	7.942	546.4
15	6.3610	5.6730	2047.0	.6829-01	.8309-01	.8309-01	.9000	.1174-02	.1428-02	.8189	5.882	545.0
15	8.6100	4.8930	2065.0	.5039-01	.6130-01	.6130-01	.9000	.8661-03	.1054-02	.6045	4.488	544.7
15	8.6100	5.3880	2070.0	.6748-01	.8218-01	.8218-01	.9000	.1160-02	.1413-02	.8057	5.971	548.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 678

OH84B 60-0 LOWER NOSE

(R4UE14)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
62	1.995	7.980	34.99	-.1400-02	434.9	1305.	94.98	.4527-01	2.018	3813.	.1287-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
62	.3505-01	.2874-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
62	4.5150	5.6960	2039.0	.2229	.2715	.2715	.9000	.7814-02	.9517-02	5.697	34.70	575.6
62	4.5410	5.5240	2038.0	.2705	.3312	.3312	.9000	.9482-02	.1161-01	6.752	44.49	592.6
62	6.3610	5.2660	2045.0	.1362	.1660	.1660	.9000	.4774-02	.5819-02	3.469	27.14	578.0
62	6.3610	5.4700	2046.0	.8899-01	.1078	.1078	.9000	.3119-02	.3778-02	2.332	17.20	557.1
62	6.3610	5.6730	2047.0	.6696-01	.8102-01	.8102-01	.9000	.2347-02	.2840-02	1.765	12.63	552.8
62	8.6100	4.8930	2065.0	.5195-01	.6287-01	.6287-01	.9000	.1821-02	.2204-02	1.368	10.11	553.2
62	8.6100	5.3880	2070.0	.6732-01	.8160-01	.8160-01	.9000	.2360-02	.2860-02	1.759	12.96	559.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

PAGE 679

OH84B 60-0 LOWER NOSE

(R4UE14)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
81	3.030	7.990	35.02	-.6903-03	670.5	1315.	95.49	.6924-01	3.094	3827.	.1957-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
81	.4346-01	.2332-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
81	4.5150	5.6960	2039.0	.2223	.2711	.2711	.9000	.9661-02	.1178-01	7.052	42.76	584.8
81	4.5410	5.5240	2039.0	.2687	.3299	.3299	.9000	.1168-01	.1434-01	8.277	54.19	605.8
81	6.3610	5.2660	2045.0	.1413	.1724	.1724	.9000	.6142-02	.7494-02	4.476	34.88	585.9
81	6.3610	5.4700	2046.0	.8978-01	.1088	.1088	.9000	.3902-02	.4726-02	2.940	21.64	561.2
81	6.3610	5.6730	2047.0	.6614-01	.7997-01	.7997-01	.9000	.2874-02	.3475-02	2.185	15.62	554.5
81	8.6100	4.8930	2065.0	.5318-01	.6433-01	.6433-01	.9000	.2311-02	.2796-02	1.753	12.94	556.2
81	8.6100	5.3880	2070.0	.6707-01	.8129-01	.8129-01	.9000	.2915-02	.3533-02	2.191	16.12	562.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE14)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PC PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
134	3.680	8.000	35.02	-.6917-03	852.8	1353.	98.02	.8735-01	3.913	3883.	.2405-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
134	.4912-01	.2109-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
134	4.5150	5.6960	2039.0	.2236	.2724	.2724	.9000	.1098-01	.1338-01	8.280	49.87	598.6
134	4.5410	5.5240	2038.0	.2663	.3261	.3261	.9000	.1308-01	.1602-01	9.642	62.82	615.5
134	6.3610	5.2660	2045.0	.1389	.1693	.1693	.9000	.6820-02	.8318-02	5.124	39.62	601.4
134	6.3610	5.4700	2046.0	.9008-01	.1089	.1089	.9000	.4424-02	.5350-02	3.460	25.35	570.7
134	6.3610	5.6730	2047.0	.6629-01	.7998-01	.7998-01	.9000	.3256-02	.3929-02	2.574	18.33	562.3
134	8.6100	4.8930	2065.0	.5464-01	.6595-01	.6595-01	.9000	.2684-02	.3239-02	2.116	15.55	564.2
134	8.6100	5.3880	2070.0	.6734-01	.8145-01	.8145-01	.9000	.3308-02	.4001-02	2.582	18.90	572.1

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE15)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
203	.4973	7.900	39.90	-10.06	99.51	1255.	93.06	.1106-01	.4831	3736.	.3207-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
203	.1703-01	.5732-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
203	4.5150	5.6960	2039.0	.2807	.3418	.3418	.9000	.4781-02	.5821-02	3.357	20.69	552.5
203	4.5410	5.5240	2038.0	.3236	.3950	.3950	.9000	.5512-02	.6729-02	3.825	25.61	560.7
203	6.3610	5.2660	2045.0	.1852	.2256	.2256	.9000	.3154-02	.3843-02	2.207	17.47	554.9
203	6.3610	5.4700	2046.0	.1389	.1688	.1688	.9000	.2366-02	.2875-02	1.677	12.44	545.8
203	6.3610	5.6730	2047.0	.1084	.1316	.1316	.9000	.1847-02	.2242-02	1.314	9.450	543.0
203	8.6100	4.8930	2065.0	.5889-01	.7141-01	.7141-01	.9000	.1003-02	.1216-02	.7175	5.341	539.4
203	8.6100	5.3880	2070.0	.1168	.1420	.1420	.9000	.1989-02	.2419-02	1.405	10.41	548.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 682

OH84B 60-0 LOWER NOSE

(R4UE15)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
190	1.004	7.940	39.95	-10.04	205.0	1261.	92.64	.2205-01	.9731	3746.	.6425-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
190	.2419-01	.4052-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
190	4.5150	5.6960	2039.0	.2803	.3426	.3426	.9000	.6781-02	.8288-02	4.701	28.75	567.4
190	4.5410	5.5240	2038.0	.3189	.3911	.3911	.9000	.7716-02	.9464-02	5.268	34.97	577.9
190	6.3610	5.2660	2045.0	.1875	.2294	.2294	.9000	.4536-02	.5550-02	3.130	24.58	570.6
190	6.3610	5.4700	2046.0	.1381	.1681	.1681	.9000	.3341-02	.4067-02	2.359	17.43	554.5
190	6.3610	5.6730	2047.0	.1091	.1327	.1327	.9000	.2640-02	.3210-02	1.875	13.43	550.6
190	8.6100	4.8930	2065.0	.6216-01	.7542-01	.7542-01	.9000	.1504-02	.1825-02	1.078	8.007	543.8
190	8.6100	5.3880	2070.0	.1174	.1431	.1431	.9000	.2841-02	.3462-02	1.996	14.72	558.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE15)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
172	2.004	7.980	39.98	-10.09	434.9	1301.	94.69	.4528-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
172	.3503-01	.2868-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
172	4.5150	5.6950	2039.0	.2776	.3406	.3406	.9000	.9725-02	.1193-01	6.839	41.21	597.5
172	4.5410	5.5240	2038.0	.3182	.3929	.3929	.9000	.1115-01	.1376-01	7.634	49.73	616.0
172	6.3610	5.2660	2045.0	.1905	.2344	.2344	.9000	.6673-02	.8210-02	4.636	35.76	606.0
172	6.3610	5.4700	2046.0	.1385	.1691	.1691	.9000	.4850-02	.5925-02	3.478	25.32	583.6
172	6.3610	5.6730	2047.0	.1072	.1306	.1306	.9000	.3755-02	.4577-02	2.721	19.24	576.1
172	8.6100	4.8930	2065.0	.6436-01	.7824-01	.7824-01	.9000	.2255-02	.2741-02	1.653	12.13	567.5
172	8.6100	5.3880	2070.0	.1171	.1432	.1432	.9000	.4102-02	.5016-02	2.928	21.28	586.8

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 684

OH84B 60-0 LOWER NOSE

(R4UE15)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
100	3.008	7.990	40.00	-10.10	673.1	1325.	96.21	.6951-01	3.106	3842.	.1950-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
100	.4360-01	.2338-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
100	4.5150	5.6960	2039.0	.2771	.3397	.3397	.9000	.1208-01	.1481-01	8.685	52.12	605.9
100	4.5410	5.5240	2038.0	.3197	.3949	.3949	.9000	.1394-01	.1722-01	9.692	62.73	629.3
100	6.3610	5.2660	2045.0	.1865	.2295	.2295	.9000	.8133-02	.1001-01	5.753	44.14	617.4
100	6.3610	5.4700	2046.0	.1368	.1667	.1667	.9000	.5966-02	.7270-02	4.403	32.01	586.6
100	6.3610	5.6730	2047.0	.1068	.1299	.1299	.9000	.4658-02	.5665-02	3.471	24.51	579.5
100	8.6100	4.8930	2065.0	.6663-01	.8086-01	.8086-01	.9000	.2905-02	.3526-02	2.186	16.00	572.3
100	8.6100	5.3880	2070.0	.1165	.1424	.1424	.9000	.5079-02	.6209-02	3.698	26.75	596.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 685

OH84B 60-0 LOWER NOSE

(R4UE17)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
200	.5083	7.900	39.97	-3.996	100.7	1247.	92.47	.1119-01	.4891	3724.	.3268-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
200	.1712-01	.5675-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
200	4.5150	5.6960	2039.0	.2409	.2935	.2935	.9000	.4124-02	.5025-02	2.868	17.68	551.2
200	4.5410	5.5240	2038.0	.2926	.3575	.3575	.9000	.5008-02	.6120-02	3.436	23.01	560.5
200	6.3610	5.2660	2045.0	.1612	.1966	.1966	.9000	.2760-02	.3365-02	1.911	15.13	554.2
200	6.3610	5.4700	2046.0	.1080	.1312	.1312	.9000	.1848-02	.2245-02	1.303	9.684	541.9
200	6.3610	5.6730	2047.0	.8311-01	.1009	.1009	.9000	.1423-02	.1727-02	1.005	7.241	539.9
200	8.6100	4.8930	2065.0	.6040-01	.7326-01	.7326-01	.9000	.1034-02	.1254-02	.7339	5.470	536.8
200	8.6100	5.3880	2070.0	.8801-01	.1069	.1069	.9000	.1507-02	.1831-02	1.061	7.886	542.4

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 686

OH84B 60-0 LOWER NOSE

(R4UE17)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
187	1.008	7.940	39.96	-3.991	205.0	1257.	92.34	.2205-01	.9731	3740.	.6445-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
187	.2418-01	.4044-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
187	4.5150	5.6960	2039.0	.2409	.2940	.2940	.9000	.5825-02	.7108-02	4.055	24.89	560.5
187	4.5410	5.5240	2038.0	.2892	.3545	.3545	.9000	.6994-02	.8573-02	4.773	31.74	574.2
187	6.3610	5.2660	2045.0	.1658	.2026	.2026	.9000	.4010-02	.4898-02	2.779	21.90	563.6
187	6.3610	5.4700	2046.0	.1077	.1309	.1309	.9000	.2605-02	.3166-02	1.847	13.69	547.6
187	6.3610	5.6730	2047.0	.8032-01	.9749-01	.9749-01	.9000	.1942-02	.2358-02	1.386	9.962	543.3
187	8.6100	4.8930	2065.0	.6065-01	.7359-01	.7359-01	.9000	.1466-02	.1780-02	1.048	7.787	542.3
187	8.6100	5.3880	2070.0	.8565-01	.1042	.1042	.9000	.2071-02	.2519-02	1.465	10.85	549.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 687

OH84B 60-0 LOWER NOSE

(R4UE17)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
178	2.003	7.980	39.97	-4.003	435.3	1302.	94.76	.4532-01	2.020	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
178	.3505-01	.2868-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
178	4.5150	5.6960	2039.0	.2342	.2853	.2853	.9000	.8211-02	.1000-01	5.973	36.41	574.2
178	4.5410	5.5240	2038.0	.2870	.3516	.3516	.9000	.1006-01	.1233-01	7.126	46.94	593.3
178	6.3610	5.2660	2045.0	.1626	.1984	.1984	.9000	.5700-02	.6954-02	4.112	32.13	580.3
178	6.3610	5.4700	2046.0	.1062	.1287	.1287	.9000	.3723-02	.4512-02	2.771	20.44	557.3
178	6.3610	5.6730	2047.0	.7990-01	.9669-01	.9669-01	.9000	.2801-02	.3389-02	2.099	15.02	552.3
178	8.6100	4.8930	2065.0	.6284-01	.7605-01	.7605-01	.9000	.2203-02	.2666-02	1.650	12.20	552.4
178	8.6100	5.3880	2070.0	.8544-01	.1037	.1037	.9000	.2995-02	.3634-02	2.219	16.34	560.9

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 688

OH84B 60-0 LOWER NOSE

(R4UE17)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
96	2.988	7.990	40.00	-4.027	670.3	1327.	96.36	.6922-01	3.093	3845.	.1939-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
96	.4352-01	.2345-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
96	4.5150	5.6960	2039.0	.2361	.2885	.2885	.9000	.1027-01	.1256-01	7.502	45.22	596.5
96	4.5410	5.5240	2038.0	.2877	.3542	.3542	.9000	.1252-01	.1542-01	8.840	57.45	620.6
96	6.3610	5.2660	2045.0	.1645	.2016	.2016	.9000	.7160-02	.8773-02	5.166	39.87	605.2
96	6.3610	5.4700	2046.0	.1060	.1287	.1287	.9000	.4613-02	.5603-02	3.464	25.32	575.7
96	6.3610	5.6730	2047.0	.7847-01	.9508-01	.9508-01	.9000	.3415-02	.4138-02	2.592	18.41	567.6
96	8.6100	4.8930	2065.0	.6358-01	.7701-01	.7701-01	.9000	.2767-02	.3351-02	2.106	15.47	565.6
96	8.6100	5.3880	2070.0	.8555-01	.1040	.1040	.9000	.3723-02	.4525-02	2.788	20.36	577.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE18)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BOFLAP = .0000 SPD9RK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
197	.4998	7.900	39.96	-1.991	100.2	1257.	93.21	.1114-01	.4867	3739.	.3226-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
197	.1710-01	.5716-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
197	4.5150	5.6960	2039.0	.2289	.2785	.2785	.9000	.3915-02	.4762-02	2.763	17.04	550.8
197	4.5410	5.5240	2038.0	.2813	.3433	.3433	.9000	.4811-02	.5871-02	3.350	22.43	560.5
197	6.3610	5.2660	2045.0	.1530	.1863	.1863	.9000	.2617-02	.3186-02	1.841	14.58	553.3
197	6.3610	5.4700	2046.0	.9810-01	.1190	.1190	.9000	.1678-02	.2035-02	1.200	8.927	541.2
197	6.3610	5.6730	2047.0	.7478-01	.9066-01	.9066-01	.9000	.1279-02	.1550-02	.9174	6.608	539.3
197	9.6100	4.8930	2065.0	.6014-01	.7291-01	.7291-01	.9000	.1029-02	.1247-02	.7391	5.495	539.0
197	8.6100	5.3880	2070.0	.7809-01	.9479-01	.9479-01	.9000	.1335-02	.1621-02	9527	7.077	543.3

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE18)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
184	.9995	7.940	39.97	-2.001	204.9	1264.	92.86	.2204-01	.9726	3751.	.6406-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
184	.2420-01	.4059-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
184	4.5150	5.6960	2039.0	.2254	.2746	.2746	.9000	.5455-02	.6645-02	3.851	23.67	557.7
184	4.5410	5.5240	2038.0	.2784	.3405	.3405	.9000	.6737-02	.8240-02	4.668	31.10	570.8
184	6.3610	5.2660	2045.0	.1579	.1925	.1925	.9000	.3822-02	.4659-02	2.689	21.22	560.2
184	6.3610	5.4700	2046.0	.9702-01	.1177	.1177	.9000	.2348-02	.2849-02	1.686	12.51	545.5
184	6.3610	5.6730	2047.0	.7158-01	.8677-01	.8677-01	.9000	.1732-02	.2100-02	1.250	8.997	541.8
184	8.6100	4.8930	2065.0	.5821-01	.7057-01	.7057-01	.9000	.1409-02	.1708-02	1.016	7.552	542.4
184	8.6100	5.3880	2070.0	.7514-01	.9123-01	.9123-01	.9000	.1818-02	.2208-02	1.303	9.660	547.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE18)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
175	1.988	7.980	39.99	-2.005	434.9	1308.	95.20	.4528-01	2.018	3817.	.1284-02	.7661-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
175	.3507-01	.2878-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
175	4.5150	5.6960	2039.0	.2207	.2685	.2685	.9000	.7741-02	.9416-02	5.690	34.71	572.7
175	4.5410	5.5240	2038.0	.2757	.3373	.3373	.9000	.9669-02	.1183-01	6.925	45.66	591.4
175	6.3610	5.2660	2045.0	.1574	.1919	.1919	.9000	.5518-02	.6730-02	4.009	31.31	581.3
175	6.3610	5.4700	2046.0	.9615-01	.1164	.1164	.9000	.3372-02	.4083-02	2.531	18.67	557.0
175	6.3610	5.6730	2047.0	.7156-01	.8654-01	.8654-01	.9000	.2509-02	.3035-02	1.895	13.56	552.4
175	8.6100	4.8930	2065.0	.6114-01	.7395-01	.7395-01	.9000	.2144-02	.2593-02	1.618	11.97	552.8
175	8.6100	5.3880	2070.0	.7710-01	.9346-01	.9346-01	.9000	.2704-02	.3277-02	2.020	14.88	560.6

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE18)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
93	2.993	7.990	40.02	-2.035	672.1	1328.	96.43	.6941-01	3.102	3846.	.1943-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
93	.4359-01	.2343-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
93	4.5150	5.6960	2039.0	.2179	.2652	.2652	.9000	.9499-02	.1156-01	7.077	42.95	582.7
93	4.5410	5.5240	2038.0	.2748	.3367	.3367	.9000	.1198-01	.1467-01	8.648	56.62	605.6
93	6.3610	5.2660	2045.0	.1547	.1886	.1886	.9000	.6741-02	.8222-02	4.969	38.63	590.5
93	6.3610	5.4700	2046.0	.9608-01	.1162	.1162	.9000	.4188-02	.5067-02	3.205	23.59	562.3
93	6.3610	5.6730	2047.0	.7018-01	.8475-01	.8475-01	.9000	.3059-02	.3694-02	2.363	16.88	555.3
93	8.6100	4.8930	2065.0	.6252-01	.7544-01	.7544-01	.9000	.2725-02	.3288-02	2.113	15.62	552.4
93	8.6100	5.3880	2070.0	.7695-01	.9309-01	.9309-01	.9000	.3354-02	.4057-02	2.568	18.90	561.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE21)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
194	.5043	7.900	39.98	-1.003	100.4	1251.	92.77	.1116-01	.4876	3730.	.3247-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
194	.1710-01	.5695-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
194	4.5150	5.6960	2039.0	.2208	.2686	.2686	.9000	.3776-02	.4593-02	2.656	16.41	547.3
194	4.5410	5.5240	2038.0	.2765	.3372	.3372	.9000	.4729-02	.5768-02	3.282	22.02	556.5
194	6.3610	5.2660	2045.0	.1560	.1898	.1898	.9000	.2668-02	.3247-02	1.870	14.83	549.8
194	6.3610	5.4700	2046.0	.9344-01	.1134	.1134	.9000	.1598-02	.1939-02	1.138	8.473	538.7
194	6.3610	5.6730	2047.0	.7091-01	.8598-01	.8598-01	.9000	.1213-02	.1470-02	.8654	6.241	537.1
194	8.6100	4.8930	2065.0	.5853-01	.7099-01	.7099-01	.9000	.1001-02	.1214-02	.7137	5.317	537.8
194	8.6100	5.3880	2070.0	.7458-01	.9055-01	.9055-01	.9000	.1276-02	.1549-02	.9050	6.730	541.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE21)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
181	.9960	7.940	39.97	-1.003	203.7	1262.	92.71	.2191-01	.9670	3748.	.6379-03	.7460-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
181	.2412-01	.4067-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
181	4.5150	5.6960	2039.0	.2173	.2647	.2647	.9000	.5241-02	.6385-02	3.689	22.67	557.7
181	4.5410	5.5240	2038.0	.2735	.3345	.3345	.9000	.6596-02	.8070-02	4.559	30.37	570.5
181	6.3610	5.2660	2045.0	.1506	.1837	.1837	.9000	.3633-02	.4430-02	2.547	20.10	560.6
181	6.3610	5.4700	2046.0	.9204-01	.1117	.1117	.9000	.2220-02	.2695-02	1.589	11.79	546.0
181	6.3610	5.6730	2047.0	.6756-01	.8194-01	.8194-01	.9000	.1630-02	.1976-02	1.172	8.429	542.5
181	8.6100	4.8930	2065.0	.5932-01	.7199-01	.7199-01	.9000	.1431-02	.1737-02	1.026	7.613	544.9
181	8.6100	5.3880	2070.0	.7301-01	.8869-01	.8869-01	.9000	.1761-02	.2139-02	1.257	9.315	548.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE21)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
169	2.008	7.980	40.02	-1.013	435.3	1300.	94.62	.4532-01	2.020	3805.	.1293-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
169	.3505-01	.2866-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R* TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
169	4.5150	5.6960	2039.0	.2195	.2679	.2679	.9000	.7692-02	.9388-02	5.535	33.64	580.1
169	4.5410	5.5240	2038.0	.2717	.3338	.3338	.9000	.9523-02	.1170-01	6.660	43.71	600.4
169	6.3610	5.2660	2045.0	.1511	.1849	.1849	.9000	.5297-02	.6481-02	3.767	29.32	588.4
169	6.3610	5.4700	2046.0	.9253-01	.1123	.1123	.9000	.3243-02	.3937-02	2.391	17.59	562.4
169	6.3610	5.6730	2047.0	.6842-01	.8294-01	.8294-01	.9000	.2398-02	.2907-02	1.781	12.71	557.1
169	8.6100	4.8930	2065.0	.6313-01	.7661-01	.7661-01	.9000	.2212-02	.2685-02	1.634	12.03	561.0
169	8.6100	5.3880	2070.0	.7295-01	.8866-01	.8866-01	.9000	.2556-02	.3107-02	1.875	13.77	566.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 696

OH84B 60-0 LOWER NOSE

(R4UE21)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
88	3.008	7.990	40.09	-1.038	670.2	1321.	95.92	.6921-01	3.093	3836.	.1947-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
88	.4348-01	.2339-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
88	4.5150	5.6960	2039.0	.2185	.2663	.2663	.9000	.9500-02	.1158-01	6.982	42.31	585.8
88	4.5410	5.5240	2038.0	.2729	.3351	.3351	.9000	.1187-01	.1457-01	8.443	55.19	609.1
88	6.3610	5.2660	2045.0	.1555	.1900	.1900	.9000	.6760-02	.8262-02	4.910	38.10	594.3
88	6.3610	5.4700	2046.0	.9465-01	.1147	.1147	.9000	.4116-02	.4989-02	3.105	22.80	566.2
88	6.3610	5.6730	2047.0	.6875-01	.8317-01	.8317-01	.9000	.2989-02	.3617-02	2.276	16.24	559.2
88	8.6100	4.8930	2065.0	.6365-01	.7713-01	.7713-01	.9000	.2768-02	.3354-02	2.091	15.36	565.2
88	8.6100	5.3880	2070.0	.7474-01	.9071-01	.9071-01	.9000	.3250-02	.3944-02	2.438	17.87	570.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 697

OH84B 60-0 LOWER NOSE

(R4UE22)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
18	.5054	7.900	40.00	-.3140-02	100.3	1248.	92.54	.1114-01	.4869	3726.	.3250-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
18	.1708-01	.5691-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
18	4.5150	5.6960	2039.0	.2118	.2580	.2580	.9000	.3618-02	.4407-02	2.521	15.55	550.9
18	4.5410	5.5240	2038.0	.2707	.3307	.3307	.9000	.4625-02	.5649-02	3.184	21.33	559.3
18	6.3610	5.2660	2045.0	.1484	.1810	.1810	.9000	.2535-02	.3092-02	1.760	13.94	553.5
18	6.3610	5.4700	2046.0	.8954-01	.1088	.1088	.9000	.1530-02	.1859-02	1.077	8.001	543.5
18	6.3610	5.6730	2047.0	.6686-01	.8122-01	.8122-01	.9000	.1142-02	.1387-02	.8058	5.797	542.1
18	8.6100	4.8930	2065.0	.5832-01	.7087-01	.7087-01	.9000	.9962-03	.1211-02	.7015	5.211	543.5
18	8.6100	5.3880	2070.0	.7088-01	.8620-01	.8620-01	.9000	.1211-02	.1473-02	.8497	6.304	545.9

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 698

OH84B 60-0 LOWER NOSE

(R4UE22)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
34	1.029	7.940	39.99	.1042-02	208.4	1254.	92.12	.2242-01	.9894	3736.	.6568-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
34	.2437-01	.4005-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
34	4.5150	5.6960	2039.0	.2132	.2605	.2605	.9000	.5197-02	.6350-02	3.586	21.98	563.5
34	4.5410	5.5240	2038.0	.2687	.3297	.3297	.9000	.6549-02	.8036-02	4.436	29.46	576.3
34	6.3610	5.2660	2045.0	.1468	.1795	.1795	.9000	.3577-02	.4374-02	2.460	19.35	566.0
34	6.3610	5.4700	2046.0	.8899-01	.1083	.1083	.9000	.2169-02	.2640-02	1.523	11.27	551.6
34	6.3610	5.6730	2047.0	.6492-01	.7894-01	.7894-01	.9000	.1582-02	.1924-02	1.117	8.009	547.9
34	8.6100	4.8930	2065.0	.6028-01	.7331-01	.7331-01	.9000	.1469-02	.1787-02	1.037	7.686	547.9
34	8.6100	5.3880	2070.0	.6826-01	.8307-01	.8307-01	.9000	.1664-02	.2025-02	1.170	8.659	550.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 699

OH84B 60-0 LOWER NOSE

(R4UE22)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
75	2.004	7.980	40.04	-.1423-06	434.9	1301.	94.69	.4527-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
75	.3503-01	.2868-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
75	4.5150	5.6960	2039.0	.2138	.2604	.2604	.9000	.7491-02	.9122-02	5.447	33.22	573.4
75	4.5410	5.5240	2038.0	.2705	.3314	.3314	.9000	.9476-02	.1161-01	6.710	44.21	592.6
75	6.3610	5.2660	2045.0	.1468	.1793	.1793	.9000	.5144-02	.6280-02	3.697	28.87	581.9
75	6.3610	5.4700	2046.0	.8994-01	.1090	.1090	.9000	.3151-02	.3819-02	2.342	17.28	557.3
75	6.3610	5.6730	2047.0	.6599-01	.7987-01	.7987-01	.9000	.2312-02	.2798-02	1.729	12.37	552.6
75	8.6100	4.8930	2065.0	.6027-01	.7304-01	.7304-01	.9000	.2111-02	.2559-02	1.571	11.59	556.6
75	8.6100	5.3880	2070.0	.7036-01	.8539-01	.8539-01	.9000	.2465-02	.2992-02	1.822	13.41	561.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE22)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
84	3.017	7.990	40.07	.2139-02	669.8	1318.	95.71	.6917-01	3.091	3832.	.1951-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) *.0175
84	.4345-01	.2336-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
84	4.5150	5.6960	2039.0	.2125	.2590	.2590	.9000	.9234-02	.1125-01	6.777	41.12	583.7
84	4.5410	5.5240	2038.0	.2691	.3304	.3304	.9000	.1169-01	.1436-01	8.311	54.38	607.0
84	6.3610	5.2660	2045.0	.1514	.1849	.1849	.9000	.6577-02	.8034-02	4.779	37.14	591.1
84	6.3610	5.4700	2046.0	.8980-01	.1088	.1088	.9000	.3902-02	.4728-02	2.943	21.64	563.4
84	6.3610	5.6730	2047.0	.6470-01	.7825-01	.7825-01	.9000	.2812-02	.3400-02	2.140	15.28	556.6
84	8.6100	4.8930	2065.0	.6201-01	.7510-01	.7510-01	.9000	.2694-02	.3263-02	2.037	14.99	561.6
84	8.6100	5.3880	2070.0	.7026-01	.8521-01	.8521-01	.9000	.3053-02	.3703-02	2.293	16.84	566.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE22)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
147	3.672	8.000	40.10	-.2161-02	850.8	1353.	98.02	.8715-01	3.904	3883.	.2400-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
147	.4906-01	.2112-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
147	4.5150	5.6960	2039.0	.2117	.2574	.2574	.9000	.1038-01	.1263-01	7.897	47.71	592.1
147	4.5410	5.5240	2038.0	.2659	.3252	.3252	.9000	.1304-01	.1595-01	9.671	63.15	611.2
147	6.3610	5.2660	2045.0	.1484	.1810	.1810	.9000	.7281-02	.8882-02	5.463	42.22	602.3
147	6.3610	5.4700	2046.0	.8845-01	.1069	.1069	.9000	.4339-02	.5244-02	3.402	24.95	568.6
147	6.3610	5.6730	2047.0	.6392-01	.7708-01	.7708-01	.9000	.3136-02	.3781-02	2.484	17.71	560.4
147	8.6100	4.8930	2065.0	.6376-01	.7702-01	.7702-01	.9000	.3128-02	.3779-02	2.457	18.03	567.2
147	8.6100	5.3880	2070.0	.7082-01	.8567-01	.8567-01	.9000	.3474-02	.4203-02	2.710	19.84	572.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE24)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
87	3.025	7.990	40.26	.9099-02	670.1	1316.	95.56	.6920-01	3.092	3829.	.1955-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
87	.4345-01	.2333-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
87	4.5150	5.6960	2039.0	.2107	.2569	.2569	.9000	.9156-02	.1116-01	6.694	40.60	584.5
87	4.5410	5.5240	2038.0	.2686	.3299	.3299	.9000	.1167-01	.1433-01	8.261	54.03	607.8
87	6.3610	5.2660	2045.0	.1503	.1838	.1838	.9000	.6533-02	.7985-02	4.724	36.69	592.5
87	6.3610	5.4700	2046.0	.8954-01	.1086	.1086	.9000	.3891-02	.4717-02	2.922	21.48	564.6
87	6.3610	5.6730	2047.0	.6531-01	.7905-01	.7905-01	.9000	.2838-02	.3435-02	2.148	15.32	558.7
87	8.6100	4.8930	2065.0	.6277-01	.7609-01	.7609-01	.9000	.2728-02	.3306-02	2.050	15.07	564.0
87	8.6100	5.3880	2070.0	.7156-01	.8686-01	.8686-01	.9000	.3110-02	.3774-02	2.323	17.04	568.5

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 703

OH84B 60-0 LOWER NOSE

(R4UE25)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
22	.5090	7.900	40.03	1.039	101.5	1252.	92.84	.1128-01	.4927	3732.	.3279-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
22	.1719-01	.5668-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
22	4.5150	5.6960	2039.0	.2085	.2540	.2540	.9000	.3585-02	.4367-02	2.505	15.43	552.8
22	4.5410	5.5240	2038.0	.2644	.3231	.3231	.9000	.4547-02	.5555-02	3.136	20.98	561.9
22	6.3610	5.2660	2045.0	.1517	.1850	.1850	.9000	.2609-02	.3181-02	1.818	14.38	555.0
22	6.3610	5.4700	2046.0	.8505-01	.1033	.1033	.9000	.1462-02	.1776-02	1.035	7.691	543.6
22	6.3610	5.6730	2047.0	.6362-01	.7724-01	.7724-01	.9000	.1094-02	.1328-02	.7764	5.586	541.9
22	8.6100	4.8930	2065.0	.5895-01	.7159-01	.7159-01	.9000	.1014-02	.1231-02	.7186	5.340	542.7
22	8.6100	5.3880	2070.0	.6660-01	.8091-01	.8091-01	.9000	.1145-02	.1391-02	.8102	6.017	544.1

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 704

OH84B 60-0 LOWER NOSE

(R4UE25)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
37	1.021	7.940	40.06	1.019	207.3	1256.	92.27	.2230-01	.9842	3739.	.6523-03	.7425-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
37	.2432-01	.4020-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
37	4.5150	5.6960	2039.0	.2063	.2519	.2519	.9000	.5017-02	.6126-02	3.479	21.34	562.2
37	4.5410	5.5240	2038.0	.2618	.3210	.3210	.9000	.6366-02	.7806-02	4.332	28.79	575.2
37	6.3610	5.2660	2045.0	.1443	.1764	.1764	.9000	.3509-02	.4289-02	2.422	19.07	565.3
37	6.3610	5.4700	2046.0	.8445-01	.1027	.1027	.9000	.2053-02	.2498-02	1.448	10.72	550.6
37	6.3610	5.6730	2047.0	.6259-01	.7609-01	.7609-01	.9000	.1522-02	.1850-02	1.077	7.723	548.1
37	8.6100	4.8930	2065.0	.6067-01	.7379-01	.7379-01	.9000	.1475-02	.1794-02	1.042	7.713	549.6
37	8.6100	5.3880	2070.0	.6459-01	.7859-01	.7859-01	.9000	.1571-02	.1911-02	1.107	8.197	550.6

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 705

OH84B 60-0 LOWER NOSE

(R4UE25)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
72	2.004	7.980	40.09	1.028	435.4	1302.	94.76	.4533-01	2.021	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
72	.3506-01	.2868-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
72	4.5150	5.6960	2039.0	.2050	.2495	.2495	.9000	.7185-02	.8746-02	5.241	31.97	572.3
72	4.5410	5.5240	2038.0	.2635	.3225	.3225	.9000	.9237-02	.1131-01	6.564	43.29	591.0
72	6.3610	5.2660	2045.0	.1484	.1810	.1810	.9000	.5202-02	.6347-02	3.754	29.34	580.0
72	6.3610	5.4700	2046.0	.8441-01	.1023	.1023	.9000	.2959-02	.3585-02	2.206	16.28	556.2
72	6.3610	5.6730	2047.0	.6179-01	.7477-01	.7477-01	.9000	.2166-02	.2621-02	1.624	11.63	551.9
72	8.6100	4.8930	2065.0	.6047-01	.7328-01	.7328-01	.9000	.2120-02	.2569-02	1.579	11.65	557.0
72	8.6100	5.3880	2070.0	.6735-01	.8168-01	.8168-01	.9000	.2361-02	.2864-02	1.752	12.91	559.7

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 706

OH84B 60-0 LOWER NOSE

(R4UE26)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
25	.5071	7.900	39.99	2.019	101.0	1251.	92.77	.1122-01	.4903	3730.	.3265-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
25	.1715-01	.5679-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
25	4.5150	5.6960	2039.0	.2057	.2506	.2506	.9000	.3528-02	.4297-02	2.463	15.18	552.4
25	4.5410	5.5240	2038.0	.2576	.3146	.3146	.9000	.4417-02	.5395-02	3.049	20.42	560.4
25	6.3610	5.2660	2045.0	.1389	.1692	.1692	.9000	.2381-02	.2902-02	1.654	13.13	554.1
25	6.3610	5.4700	2046.0	.8231-01	.1000	.1000	.9000	.1412-02	.1715-02	.9976	7.408	544.0
25	6.3610	5.6730	2047.0	.5985-01	.7266-01	.7266-01	.9000	.1026-02	.1246-02	.7282	5.240	541.3
25	8.6100	4.8930	2065.0	.5920-01	.7190-01	.7190-01	.9000	.1015-02	.1233-02	.7187	5.341	542.7
25	8.6100	5.3880	2070.0	.6118-01	.7433-01	.7433-01	.9000	.1049-02	.1275-02	.7414	5.506	544.0

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 707

OH84B 60-0 LOWER NOSE

(R4UE26)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
40	1.021	7.940	40.02	2.016	206.8	1254.	92.12	.2225-01	.9818	3736.	.6518-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
40	.2428-01	.4021-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
40	4.5150	5.6960	2039.0	.2006	.2449	.2449	.9000	.4872-02	.5945-02	3.382	20.77	559.4
40	4.5410	5.5240	2038.0	.2576	.3157	.3157	.9000	.6254-02	.7665-02	4.260	28.35	572.6
40	6.3610	5.2660	2045.0	.1399	.1709	.1709	.9000	.3397-02	.4150-02	2.348	18.51	562.5
40	6.3610	5.4700	2046.0	.8080-01	.9826-01	.9826-01	.9000	.1962-02	.2386-02	1.384	10.26	548.1
40	6.3610	5.6730	2047.0	.5900-01	.7170-01	.7170-01	.9000	.1433-02	.1741-02	1.014	7.283	545.7
40	8.6100	4.8930	2065.0	.5948-01	.7231-01	.7231-01	.9000	.1444-02	.1756-02	1.020	7.562	547.3
40	8.6100	5.3880	2070.0	.6226-01	.7576-01	.7576-01	.9000	.1512-02	.1839-02	1.063	7.871	550.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

PAGE 708

OH84B 60-0 LOWER NOSE

(R4UE26)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
69	2.003	7.980	40.01	2.011	433.8	1299.	94.54	.4516-01	2.013	3804.	.1289-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
69	.3498-01	.2869-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
69	4.5150	5.6960	2039.0	.1995	.2428	.2428	.9000	.6979-02	.8494-02	5.084	31.05	570.3
69	4.5410	5.5240	2038.0	.2596	.3178	.3178	.9000	.9081-02	.1112-01	6.443	42.53	589.1
69	6.3610	5.2660	2045.0	.1409	.1718	.1718	.9000	.4927-02	.6008-02	3.555	27.82	577.2
69	6.3610	5.4700	2046.0	.8177-01	.9902-01	.9902-01	.9000	.2860-02	.3464-02	2.132	15.76	553.3
69	6.3610	5.6730	2047.0	.5878-01	.7110-01	.7110-01	.9000	.2056-02	.2487-02	1.542	11.05	549.0
69	8.6100	4.8930	2065.0	.6071-01	.7356-01	.7356-01	.9000	.2124-02	.2573-02	1.578	11.65	555.4
69	8.6100	5.3880	2070.0	.6297-01	.7633-01	.7633-01	.9000	.2203-02	.2670-02	1.635	12.01	556.6

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OH84B MODEL 60-0 IN THE AEDC VKI HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE27)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
28	.5063	7.900	40.02	4.000	100.5	1248.	92.54	.1116-01	.4878	3726.	.3256-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
28	.1710-01	.5686-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
28	4.5150	5.6960	2039.0	.1922	.2341	.2341	.9000	.3286-02	.4003-02	2.288	14.11	551.3
28	4.5410	5.5240	2038.0	.2467	.3013	.3013	.9000	.4217-02	.5152-02	2.902	19.44	559.6
28	6.3610	5.2650	2045.0	.1341	.1635	.1635	.9000	.2294-02	.2795-02	1.595	12.64	552.3
28	6.3610	5.4700	2046.0	.7374-01	.8958-01	.8958-01	.9000	.1261-02	.1532-02	.8896	6.613	542.1
28	6.3610	5.6730	2047.0	.5306-01	.6441-01	.6441-01	.9000	.9072-03	.1101-02	.6424	4.627	539.6
28	8.6100	4.8930	2065.0	.5848-01	.7105-01	.7105-01	.9000	.1000-02	.1215-02	.7055	5.244	542.1
28	8.6100	5.3880	2070.0	.5396-01	.6555-01	.6555-01	.9000	.9226-03	.1121-02	.6508	4.837	542.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE27)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
43	1.018	7.940	40.00	4.023	206.3	1254.	92.12	.2219-01	.9794	3736.	.6502-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
43	.2425-01	.4025-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
43	4.5150	5.6960	2039.0	.1896	.2313	.2313	.9000	.4598-02	.5610-02	3.195	19.63	558.8
43	4.5410	5.5240	2038.0	.2459	.3013	.3013	.9000	.5963-02	.7307-02	4.064	27.05	572.2
43	6.3610	5.2660	2045.0	.1311	.1601	.1601	.9000	.3179-02	.3881-02	2.202	17.37	561.0
43	6.3610	5.4700	2046.0	.7264-01	.8828-01	.8828-01	.9000	.1762-02	.2141-02	1.247	9.250	545.9
43	6.3610	5.6730	2047.0	.5241-01	.6365-01	.6365-01	.9000	.1271-02	.1543-02	.9026	6.489	543.5
43	8.6100	4.8930	2065.0	.6024-01	.7326-01	.7326-01	.9000	.1461-02	.1776-02	1.031	7.638	548.1
43	8.6100	5.3880	2070.0	.5500-01	.6687-01	.6687-01	.9000	.1334-02	.1622-02	.9415	6.979	547.7

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE27)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
65	1.997	7.980	40.03	4.032	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
65	.3502-01	.2873-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
65	4.5150	5.6960	2039.0	.1906	.2322	.2322	.9000	.6674-02	.8131-02	4.850	29.54	576.0
65	4.5410	5.5240	2038.0	.2476	.3032	.3032	.9000	.8671-02	.1062-01	6.155	40.56	592.8
65	6.3610	5.2660	2045.0	.1329	.1621	.1621	.9000	.4655-02	.5678-02	3.365	26.30	579.7
65	6.3610	5.4700	2046.0	.7380-01	.8943-01	.8943-01	.9000	.2585-02	.3132-02	1.926	14.21	557.3
65	6.3610	5.6730	2047.0	.5167-01	.6253-01	.6253-01	.9000	.1810-02	.2190-02	1.358	9.719	552.3
65	8.6100	4.8930	2065.0	.6041-01	.7323-01	.7323-01	.9000	.2116-02	.2565-02	1.574	11.60	558.8
65	8.6100	5.3880	2070.0	.5593-01	.6779-01	.6779-01	.9000	.1959-02	.2374-02	1.458	10.75	558.2

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OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE28)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
31	.5055	7.900	40.08	9.971	100.7	1251.	92.77	.1119-01	.4887	3730.	.3255-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
31	.1712-01	.5688-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
31	4.5150	5.6960	2039.0	.1589	.1933	.1933	.9000	.2721-02	.3310-02	1.911	11.80	548.3
31	4.5410	5.5240	2038.0	.2129	.2596	.2596	.9000	.3645-02	.4446-02	2.529	16.97	556.7
31	6.3610	5.2660	2045.0	.1125	.1369	.1369	.9000	.1926-02	.2344-02	1.350	10.71	549.7
31	6.3610	5.4700	2046.0	.5391-01	.6542-01	.6542-01	.9000	.9230-03	.1120-02	.6560	4.881	540.0
31	6.3610	5.6730	2047.0	.3731-01	.4525-01	.4525-01	.9000	.6388-03	.7749-03	.4551	3.280	538.3
31	8.6100	4.8930	2065.0	.5845-01	.7099-01	.7099-01	.9000	.1001-02	.1216-02	.7084	5.263	542.9
31	8.6100	5.3880	2070.0	.3778-01	.4586-01	.4586-01	.9000	.6468-03	.7853-03	.4589	3.413	541.2

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE28)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
46	1.011	7.940	40.01	10.10	207.3	1264.	92.86	.2230-01	.9842	3751.	.6482-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
46	.2434-01	.4035-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
46	4.5150	5.6960	2039.0	.1546	.1880	.1880	.9000	.3762-02	.4576-02	2.674	16.47	553.0
46	4.5410	5.5240	2038.0	.2130	.2602	.2602	.9000	.5185-02	.6333-02	3.615	24.13	566.4
46	6.3610	5.2660	2045.0	.1110	.1351	.1351	.9000	.2702-02	.3289-02	1.913	15.14	555.5
46	6.3610	5.4700	2046.0	.5270-01	.6387-01	.6387-01	.9000	.1283-02	.1555-02	.9266	6.891	541.3
46	6.3610	5.6730	2047.0	.3534-01	.4279-01	.4279-01	.9000	.8602-03	.1042-02	.6240	4.498	538.2
46	8.6100	4.8930	2065.0	.5974-01	.7251-01	.7251-01	.9000	.1454-02	.1765-02	1.043	7.734	546.5
46	8.6100	5.3880	2070.0	.3731-01	.4524-01	.4524-01	.9000	.9083-03	.1101-02	.6552	4.869	542.3

DATE 23 FEB 80

OH84B MODEL 60-0 IN THE AEDC VKF HYPERSONIC TUNNEL

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OH84B 60-0 LOWER NOSE

(R4UE28)

LOWER NOSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
59	1.995	7.980	40.01	10.00	433.9	1303.	94.84	.4517-01	2.014	3810.	.1286-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
59	.3500-01	.2874-01

TEST DATA

RUN NUMBER	XO MS	ZO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
59	4.5150	5.6960	2039.0	.1583	.1923	.1923	.9000	.5542-02	.6730-02	4.089	25.04	564.8
59	4.5410	5.5240	2038.0	.2128	.2597	.2597	.9000	.7447-02	.9092-02	5.363	35.51	582.5
59	6.3610	5.2660	2045.0	.1123	.1365	.1365	.9000	.3929-02	.4778-02	2.882	22.64	569.3
59	6.3610	5.4700	2046.0	.5304-01	.6409-01	.6409-01	.9000	.1856-02	.2243-02	1.403	10.40	547.2
59	6.3610	5.6730	2047.0	.3579-01	.4320-01	.4320-01	.9000	.1253-02	.1512-02	.9506	6.833	543.7
59	8.6100	4.8930	2065.0	.6122-01	.7411-01	.7411-01	.9000	.2143-02	.2594-02	1.604	11.85	554.0
59	8.6100	5.3880	2070.0	.3842-01	.4645-01	.4645-01	.9000	.1345-02	.1626-02	1.013	7.506	549.1

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF01)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 25.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = 49.00

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
5	3.644	8.000	24.96	.8346-02	847.3	1356.	98.24	.8678-01	3.898	3887.	.2384-02	.7905-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
5	.4898-01	.2119-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
5	13.107	1.9620	2115.0	.6742-01	.8211-01	.8211-01	.9000	.3302-02	.4021-02	2.503	22.62	597.7
5	13.107	2.1420	2116.0	.7233-01	.8846-01	.8846-01	.9000	.3542-02	.4332-02	2.634	28.36	612.2
5	13.107	2.3220	2117.0	.6658-01	.8144-01	.8144-01	.9000	.3261-02	.3989-02	2.423	30.68	612.8
5	13.107	2.4480	2118.0	.5575-01	.6756-01	.6756-01	.9000	.2730-02	.3309-02	2.117	18.53	580.1
5	13.170	.78000	2107.0	.4271-01	.5186-01	.5186-01	.9000	.2092-02	.2540-02	1.608	14.61	586.9
5	13.207	1.7820	2114.0	.7066-01	.8584-01	.8584-01	.9000	.3461-02	.4204-02	2.653	18.64	589.2
5	15.356	1.8370	2130.0	.4151-01	.5043-01	.5043-01	.9000	.2033-02	.2470-02	1.557	14.74	589.9
5	15.356	2.0460	2131.0	.5877-01	.7140-01	.7140-01	.9000	.2878-02	.3497-02	2.206	16.57	589.1
5	15.356	2.2500	2132.0	.6554-01	.7970-01	.7970-01	.9000	.3210-02	.3903-02	2.449	19.01	592.8
5	15.356	2.4530	2133.0	.7402-01	.9028-01	.9028-01	.9000	.3625-02	.4421-02	2.729	22.70	602.9
5	15.356	2.6630	2134.0	.7567-01	.9255-01	.9255-01	.9000	.3706-02	.4533-02	2.756	25.80	612.1
5	15.356	2.8160	2135.0	.6767-01	.8231-01	.8231-01	.9000	.3314-02	.4031-02	2.526	20.34	593.4

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF02)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
157	2.008	7.980	29.94	-4.034	434.8	1299.	94.54	.4527-01	2.018	3804.	.1292-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
157	.3502-01	.2866-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
157	13.107	1.9620	2115.0	.9023-01	.1101	.1101	.9000	.3160-02	.3854-02	2.277	20.78	578.0
157	13.107	2.1420	2116.0	.9728-01	.1192	.1192	.9000	.3407-02	.4173-02	2.410	26.22	591.4
157	13.107	2.3220	2117.0	.9069-01	.1111	.1111	.9000	.3176-02	.3892-02	2.242	28.68	592.7
157	13.107	2.4480	2118.0	.7500-01	.9117-01	.9117-01	.9000	.2627-02	.3193-02	1.924	16.95	565.3
157	13.170	.78000	2107.0	.5838-01	.7101-01	.7101-01	.9000	.2044-02	.2487-02	1.492	13.68	568.7
157	13.207	1.7820	2114.0	.9123-01	.1110	.1110	.9000	.3195-02	.3888-02	2.327	16.50	570.4
157	15.356	1.8370	2130.0	.5516-01	.6712-01	.6712-01	.9000	.1932-02	.2351-02	1.408	13.46	570.0
157	15.356	2.0460	2131.0	.7645-01	.9303-01	.9303-01	.9000	.2677-02	.3258-02	1.950	14.79	570.3
157	15.356	2.2500	2132.0	.8447-01	.1029	.1029	.9000	.2958-02	.3602-02	2.149	16.85	572.3
157	15.356	2.4530	2133.0	.9548-01	.1166	.1166	.9000	.3344-02	.4083-02	2.399	20.17	581.3
157	15.356	2.6630	2134.0	.9779-01	.1197	.1197	.9000	.3424-02	.4192-02	2.429	23.00	589.3
157	15.356	2.8160	2135.0	.8564-01	.1044	.1044	.9000	.2999-02	.3655-02	2.170	17.63	575.1

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF02)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
118	3.023	7.990	29.94	-4.046	673.4	1321.	95.92	.6954-01	3.108	3836.	.1957-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
118	.4359-01	.2333-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
118	13.107	1.9620	2115.0	.8973-01	.1097	.1097	.9000	.3911-02	.4782-02	2.835	25.65	595.7
118	13.107	2.1420	2116.0	.9628-01	.1183	.1183	.9000	.4197-02	.5157-02	2.975	32.04	611.7
118	13.107	2.3220	2117.0	.9001-01	.1106	.1106	.9000	.3923-02	.4820-02	2.785	35.31	610.7
118	13.107	2.4480	2118.0	.7566-01	.9201-01	.9201-01	.9000	.3298-02	.4011-02	2.451	21.47	577.6
118	13.170	.78000	2107.0	.5705-01	.6950-01	.6950-01	.9000	.2487-02	.3029-02	1.833	16.69	583.4
118	13.207	1.7820	2114.0	.9182-01	.1119	.1119	.9000	.4002-02	.4880-02	2.940	20.69	586.1
118	15.356	1.8370	2130.0	.5385-01	.6567-01	.6567-01	.9000	.2347-02	.2862-02	1.723	16.33	586.7
118	15.356	2.0460	2131.0	.7533-01	.9183-01	.9183-01	.9000	.3284-02	.4003-02	2.414	18.16	585.5
118	15.356	2.2500	2132.0	.8326-01	.1016	.1016	.9000	.3629-02	.4428-02	2.655	20.66	589.0
118	15.356	2.4530	2133.0	.9435-01	.1155	.1155	.9000	.4113-02	.5035-02	2.964	24.70	609.0
118	15.356	2.6630	2134.0	.9605-01	.1180	.1180	.9000	.4186-02	.5141-02	2.977	27.91	609.6
118	15.356	2.8160	2135.0	.8329-01	.1017	.1017	.9000	.3630-02	.4432-02	2.651	21.38	590.4

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF02)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
131	3.694	8.000	29.96	-4.050	855.1	1352.	97.95	.8759-01	3.924	3881.	.2414-02	.7882-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
131	.4918-01	.2106-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAN/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	-ODOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
131	13.107	1.9620	2115.0	.8984-01	.1099	.1099	.9000	.4418-02	.5403-02	3.277	29.43	610.0
131	13.107	2.1420	2116.0	.9605-01	.1180	.1180	.9000	.4723-02	.5804-02	3.429	36.68	625.8
131	13.107	2.3220	2117.0	.8969-01	.1103	.1103	.9000	.4411-02	.5422-02	3.196	40.20	627.0
131	13.107	2.4480	2118.0	.7637-01	.9280-01	.9280-01	.9000	.3756-02	.4563-02	2.867	24.99	588.2
131	13.170	.78000	2107.0	.5709-01	.6954-01	.6954-01	.9000	.2808-02	.3420-02	2.120	19.17	596.5
131	13.207	1.7820	2114.0	.9433-01	.1150	.1150	.9000	.4639-02	.5654-02	3.492	24.42	598.9
131	15.356	1.8370	2130.0	.5329-01	.6495-01	.6495-01	.9000	.2621-02	.3194-02	1.973	18.59	598.9
131	15.356	2.0460	2131.0	.7539-01	.9189-01	.9189-01	.9000	.3708-02	.4519-02	2.791	20.86	598.8
131	15.356	2.2500	2132.0	.8288-01	.1011	.1011	.9000	.4076-02	.4974-02	3.052	23.58	603.0
131	15.356	2.4530	2133.0	.9354-01	.1146	.1146	.9000	.4600-02	.5635-02	3.386	28.00	615.6
131	15.356	2.6630	2134.0	.9536-01	.1172	.1172	.9000	.4690-02	.5763-02	3.402	31.64	626.2
131	15.356	2.8160	2135.0	.8439-01	.1030	.1030	.9000	.4150-02	.5065-02	3.106	24.88	603.3

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF03)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
154	2.002	7.980	29.96	-2.027	435.4	1303.	94.84	.4533-01	2.021	3810.	.1290-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
154	.3506-01	.2869-01

TEST DATA

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
154	13.107	1.9620	2115.0	.8316-01	.1016	.1016	.9000	.2916-02	.3563-02	2.092	19.03	585.0
154	13.107	2.1420	2116.0	.8871-01	.1088	.1088	.9000	.3111-02	.3815-02	2.195	23.82	596.9
154	13.107	2.3220	2117.0	.8083-01	.9912-01	.9912-01	.9000	.2834-02	.3475-02	2.002	25.56	596.4
154	13.107	2.4480	2118.0	.6658-01	.8095-01	.8095-01	.9000	.2335-02	.2838-02	1.713	15.08	568.8
154	13.170	.78000	2107.0	.5595-01	.6820-01	.6820-01	.9000	.1962-02	.2391-02	1.423	12.99	577.5
154	13.207	1.7820	2114.0	.8958-01	.1092	.1092	.9000	.3141-02	.3830-02	2.273	16.05	578.9
154	15.356	1.8370	2130.0	.5154-01	.6285-01	.6285-01	.9000	.1807-02	.2204-02	1.308	12.44	579.1
154	15.356	2.0460	2131.0	.7223-01	.9808-01	.9808-01	.9000	.2533-02	.3088-02	1.833	13.84	578.9
154	15.356	2.2500	2132.0	.7859-01	.9592-01	.9592-01	.9000	.2756-02	.3363-02	1.987	15.52	581.5
154	15.356	2.4530	2133.0	.8681-01	.1062	.1062	.9000	.3044-02	.3723-02	2.174	18.22	589.4
154	15.356	2.6630	2134.0	.8648-01	.1060	.1060	.9000	.3032-02	.3716-02	2.147	20.28	594.6
154	15.356	2.8160	2135.0	.7530-01	.9184-01	.9184-01	.9000	.2640-02	.3220-02	1.910	15.48	579.3

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OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF03)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
115	3.006	7.990	29.95	-2.017	672.0	1324.	96.14	.6940-01	3.101	3841.	.1948-02	.7733-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
115	.4356-01	.2339-01

TEST DATA

RUN NUMBER	XO MS	YO MS	I/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAH/TO TAH/TO	H(TO) BTU/R FT2SEC	H(TAH) BTU/R FT2SEC	QDOT BTU/ FT2SEC	QTHDT DEG. R /SEC	TW DEG. R
115	13.107	1.9620	2115.0	.8312-01	.1016	.1016	.9000	.3621-02	.4425-02	2.636	23.85	595.6
115	13.107	2.1420	2116.0	.8818-01	.1083	.1083	.9000	.3841-02	.4717-02	2.739	29.51	610.7
115	13.107	2.3220	2117.0	.8026-01	.9856-01	.9856-01	.9000	.3496-02	.4293-02	2.493	31.60	610.6
115	13.107	2.4480	2118.0	.6696-01	.8133-01	.8133-01	.9000	.2917-02	.3543-02	2.184	19.16	574.9
115	13.170	.78000	2107.0	.5484-01	.6683-01	.6683-01	.9000	.2389-02	.2911-02	1.763	16.03	585.6
115	13.207	1.7820	2114.0	.8831-01	.1076	.1076	.9000	.3847-02	.4688-02	2.836	19.96	586.3
115	15.356	1.8370	2130.0	.5001-01	.6098-01	.6098-01	.9000	.2178-02	.2656-02	1.603	15.19	587.8
115	15.356	2.0460	2131.0	.7012-01	.8548-01	.8548-01	.9000	.3055-02	.3723-02	2.251	16.93	586.7
115	15.356	2.2500	2132.0	.7686-01	.9379-01	.9379-01	.9000	.3348-02	.4085-02	2.456	19.09	590.2
115	15.356	2.4530	2133.0	.8565-01	.1048	.1048	.9000	.3731-02	.4566-02	2.698	22.48	600.4
115	15.356	2.6630	2134.0	.8576-01	.1052	.1052	.9000	.3736-02	.4584-02	2.672	25.07	608.4
115	15.356	2.8160	2135.0	.7409-01	.9034-01	.9034-01	.9000	.3227-02	.3935-02	2.375	19.18	587.7

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER-MID FUSELAGE

(R4UF03)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
128	3.686	8.000	29.95	-2.016	854.2	1353.	98.02	.8750-01	3.920	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
128	.4916-01	.2108-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
128	13.107	1.9520	2115.0	.8286-01	.1013	.1013	.9000	.4073-02	.4979-02	3.028	27.21	609.2
128	13.107	2.1420	2116.0	.8736-01	.1074	.1074	.9000	.4295-02	.5278-02	3.118	33.33	626.7
128	13.107	2.3220	2117.0	.7996-01	.9819-01	.9819-01	.9000	.3931-02	.4827-02	2.864	36.07	624.1
128	13.107	2.4480	2118.0	.6715-01	.8148-01	.8148-01	.9000	.3301-02	.4005-02	2.538	22.17	583.8
128	13.170	.78000	2107.0	.5454-01	.6643-01	.6643-01	.9000	.2681-02	.3265-02	2.027	18.33	596.7
128	13.207	1.7820	2114.0	.8838-01	.1077	.1077	.9000	.4345-02	.5294-02	3.277	22.92	598.4
128	15.356	1.8370	2130.0	.4894-01	.5965-01	.5965-01	.9000	.2406-02	.2933-02	1.811	17.06	599.9
128	15.356	2.0460	2131.0	.6955-01	.8479-01	.8479-01	.9000	.3419-02	.4168-02	2.573	19.22	600.1
128	15.356	2.2500	2132.0	.7671-01	.9363-01	.9363-01	.9000	.3771-02	.4603-02	2.822	21.79	604.2
128	15.356	2.4530	2133.0	.8484-01	.1039	.1039	.9000	.4171-02	.5109-02	3.072	25.40	616.1
128	15.356	2.6630	2134.0	.8430-01	.1035	.1035	.9000	.4144-02	.5090-02	3.016	28.07	624.7
128	15.356	2.8160	2135.0	.7572-01	.9229-01	.9229-01	.9000	.3722-02	.4537-02	2.804	22.51	599.3

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF04)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
151	1.981	7.980	29.94	-1.004	435.3	1312.	95.49	.4532-01	2.020	3823.	.1281-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
151	.3510-01	.2882-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
151	13.107	1.9620	2115.0	.8121-01	.9893-01	.9893-01	.9000	.2851-02	.3473-02	2.088	19.04	579.3
151	13.107	2.1420	2116.0	.8657-01	.1058	.1058	.9000	.3039-02	.3714-02	2.193	23.87	590.1
151	13.107	2.3220	2117.0	.7878-01	.9626-01	.9626-01	.9000	.2765-02	.3379-02	1.998	25.59	589.3
151	13.107	2.4480	2118.0	.6280-01	.7616-01	.7616-01	.9000	.2204-02	.2673-02	1.648	14.54	564.0
151	13.170	.78000	2107.0	.5506-01	.6695-01	.6695-01	.9000	.1933-02	.2350-02	1.427	13.06	573.2
151	13.207	1.7820	2114.0	.8432-01	.1026	.1026	.9000	.2960-02	.3600-02	2.183	15.45	574.1
151	15.356	1.8370	2130.0	.5114-01	.6221-01	.6221-01	.9000	.1795-02	.2184-02	1.323	12.62	574.6
151	15.356	2.0460	2131.0	.7105-01	.8642-01	.8642-01	.9000	.2494-02	.3034-02	1.839	13.91	574.3
151	15.356	2.2500	2132.0	.7799-01	.9494-01	.9494-01	.9000	.2738-02	.3332-02	2.012	15.75	576.6
151	15.356	2.4530	2133.0	.8575-01	.1046	.1046	.9000	.3010-02	.3671-02	2.193	18.43	583.0
151	15.356	2.6630	2134.0	.8544-01	.1044	.1044	.9000	.2999-02	.3664-02	2.168	20.53	588.8
151	15.356	2.8160	2135.0	.7284-01	.8861-01	.8861-01	.9000	.2557-02	.3110-02	1.885	15.31	574.5

DATE 15 MAY 80

QMB4B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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QMB4B 60-0 LOWER MID FUSELAGE

(R4UF04)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BOFLAP = .0000 SPD8RK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
112	2.995	7.990	29.94	-1.000	673.3	1329.	96.50	.6953-01	3.107	3848.	.1945-02	.7766-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
112	.4363-01	.2342-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
112	13.107	1.9620	2115.0	.8058-01	.9833-01	.9833-01	.9000	.3516-02	.4290-02	2.589	23.46	592.4
112	13.107	2.1420	2116.0	.8538-01	.1046	.1046	.9000	.3725-02	.4565-02	2.690	29.04	606.6
112	13.107	2.3220	2117.0	.7733-01	.9475-01	.9475-01	.9000	.3374-02	.4134-02	2.438	30.98	606.0
112	13.107	2.4480	2118.0	.6313-01	.7657-01	.7657-01	.9000	.2754-02	.3341-02	2.085	18.32	571.8
112	13.170	.78000	2107.0	.5347-01	.6507-01	.6507-01	.9000	.2333-02	.2839-02	1.738	15.81	583.8
112	13.207	1.7820	2114.0	.8286-01	.1009	.1009	.9000	.3615-02	.4400-02	2.692	18.96	584.0
112	15.356	1.8370	2130.0	.4923-01	.5996-01	.5996-01	.9000	.2148-02	.2616-02	1.595	15.13	586.0
112	15.356	2.0460	2131.0	.6854-01	.8345-01	.8345-01	.9000	.2990-02	.3641-02	2.224	16.74	584.9
112	15.356	2.2500	2132.0	.7580-01	.9237-01	.9237-01	.9000	.3307-02	.4030-02	2.450	19.07	587.9
112	15.356	2.4530	2133.0	.8378-01	.1024	.1024	.9000	.3655-02	.4467-02	2.673	22.30	597.5
112	15.356	2.6630	2134.0	.8342-01	.1022	.1022	.9000	.3640-02	.4458-02	2.635	24.76	604.7
112	15.356	2.8160	2135.0	.7219-01	.8788-01	.8788-01	.9000	.3150-02	.3834-02	2.345	18.96	584.3

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

PAGE 724

OH84B 60-0 LOWER MID FUSELAGE

(R4UF04)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
125	3.687	8.000	29.96	-.9824	854.5	1353.	98.02	.8753-01	3.921	3883.	.2410-02	.7688-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
125	.4917-01	.2107-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
125	13.107	1.9620	2115.0	.8060-01	.9840-01	.9840-01	.9000	.3963-02	.4838-02	2.963	26.69	604.8
125	13.107	2.1420	2116.0	.8487-01	.1041	.1041	.9000	.4173-02	.5120-02	3.051	32.71	621.4
125	13.107	2.3220	2117.0	.7681-01	.9415-01	.9415-01	.9000	.3776-02	.4629-02	2.773	35.03	618.3
125	13.107	2.4480	2118.0	.6310-01	.7650-01	.7650-01	.9000	.3103-02	.3761-02	2.397	20.98	580.0
125	13.170	.78000	2107.0	.5341-01	.6497-01	.6497-01	.9000	.2626-02	.3195-02	1.995	18.07	592.9
125	13.207	1.7820	2114.0	.8538-01	.1039	.1039	.9000	.4198-02	.5110-02	3.182	22.29	594.8
125	15.356	1.8370	2130.0	.4807-01	.5854-01	.5854-01	.9000	.2364-02	.2878-02	1.788	16.87	596.3
125	15.356	2.0460	2131.0	.6863-01	.8357-01	.8357-01	.9000	.3374-02	.4109-02	2.552	19.10	596.2
125	15.356	2.2500	2132.0	.7548-01	.9201-01	.9201-01	.9000	.3711-02	.4524-02	2.793	21.61	599.9
125	15.356	2.4530	2133.0	.8319-01	.1017	.1017	.9000	.4090-02	.5002-02	3.034	25.15	610.9
125	15.356	2.6630	2134.0	.8235-01	.1010	.1010	.9000	.4049-02	.4964-02	2.971	27.73	618.9
125	15.356	2.8160	2135.0	.7080-01	.8618-01	.8618-01	.9000	.3481-02	.4237-02	2.639	21.23	594.7

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF06)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
12	.5316	7.900	29.95	.7364-02	104.3	1239.	91.88	.1159-01	.5065	3712.	.3406-03	.7393-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
12	.1740-01	.5555-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
12	13.107	1.9620	2115.0	.8256-01	.1008	.1008	.9000	.1437-02	.1755-02	.9820	9.064	555.2
12	13.107	2.1420	2116.0	.8858-01	.1083	.1083	.9000	.1541-02	.1886-02	1.047	11.57	559.8
12	13.107	2.3220	2117.0	.7941-01	.9712-01	.9712-01	.9000	.1382-02	.1690-02	.9389	12.21	559.3
12	13.107	2.4480	2118.0	.6013-01	.7331-01	.7331-01	.9000	.1046-02	.1276-02	.7212	6.410	549.5
12	13.170	.78000	2107.0	.5783-01	.7058-01	.7058-01	.9000	.1006-02	.1228-02	.6900	6.377	553.0
12	13.207	1.7820	2114.0	.8865-01	.1082	.1082	.9000	.1543-02	.1883-02	1.057	7.559	553.6
12	15.356	1.8370	2130.0	.5353-01	.6534-01	.6534-01	.9000	.9316-03	.1137-02	.6385	6.156	553.3
12	15.356	2.0460	2131.0	.7371-01	.8997-01	.8997-01	.9000	.1283-02	.1566-02	.8797	6.728	552.9
12	15.356	2.2500	2132.0	.8012-01	.9781-01	.9781-01	.9000	.1394-02	.1702-02	.9549	7.561	553.8
12	15.356	2.4530	2133.0	.8875-01	.1084	.1084	.9000	.1545-02	.1887-02	1.054	8.980	556.0
12	15.356	2.6630	2134.0	.8863-01	.1084	.1084	.9000	.1542-02	.1886-02	1.049	10.08	558.8
12	15.356	2.8160	2135.0	.7093-01	.8659-01	.8659-01	.9000	.1234-02	.1507-02	.8454	6.942	553.8

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF06)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
49	2.016	7.980	29.96	-.2452-02	435.6	1297.	94.40	.4535-01	2.021	3801.	.1297-02	.7596-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
49	.3504-01	.2861-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
49	13.107	1.9620	2115.0	.7876-01	.9604-01	.9604-01	.9000	.2760-02	.3365-02	1.989	18.17	576.0
49	13.107	2.1420	2116.0	.8285-01	.1014	.1014	.9000	.2903-02	.3552-02	2.062	22.49	586.4
49	13.107	2.3220	2117.0	.7430-01	.9087-01	.9087-01	.9000	.2604-02	.3184-02	1.852	23.77	585.4
49	13.107	2.4480	2118.0	.5917-01	.7182-01	.7182-01	.9000	.2073-02	.2517-02	1.526	13.49	560.6
49	13.170	.78000	2107.0	.5459-01	.6644-01	.6644-01	.9000	.1913-02	.2328-02	1.391	12.75	569.5
49	13.207	1.7820	2114.0	.8481-01	.1033	.1033	.9000	.2972-02	.3618-02	2.157	15.30	570.8
49	15.356	1.8370	2130.0	.4987-01	.6072-01	.6072-01	.9000	.1747-02	.2128-02	1.267	12.11	571.3
49	15.356	2.0460	2131.0	.6957-01	.8471-01	.8471-01	.9000	.2438-02	.2968-02	1.769	13.41	571.0
49	15.356	2.2500	2132.0	.7600-01	.9260-01	.9260-01	.9000	.2663-02	.3245-02	1.926	15.10	573.3
49	15.356	2.4530	2133.0	.8245-01	.1006	.1006	.9000	.2889-02	.3527-02	2.072	17.45	579.4
49	15.356	2.6630	2134.0	.8100-01	.9903-01	.9903-01	.9000	.2838-02	.3470-02	2.021	19.18	584.8
49	15.356	2.8160	2135.0	.6811-01	.8292-01	.8292-01	.9000	.2387-02	.2906-02	1.733	14.11	570.6

DATE 15 MAY 80

OH848 MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH848 60-0 LOWER MID FUSELAGE

(R4UF06)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
78	3.052	7.990	29.97	-.2449-02	670.0	1308.	94.98	.6919-01	3.092	3817.	.1966-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
78	.4340-01	.2325-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
78	13.107	1.9620	2115.0	.7762-01	.9494-01	.9494-01	.9000	.3369-02	.4121-02	2.414	21.89	591.1
78	13.107	2.1420	2116.0	.8221-01	.1010	.1010	.9000	.3568-02	.4383-02	2.510	27.13	604.3
78	13.107	2.3220	2117.0	.7372-01	.9052-01	.9052-01	.9000	.3200-02	.3929-02	2.254	28.68	603.2
78	13.107	2.4480	2118.0	.5950-01	.7233-01	.7233-01	.9000	.2583-02	.3139-02	1.904	16.74	570.4
78	13.170	.78000	2107.0	.5302-01	.6470-01	.6470-01	.9000	.2301-02	.2808-02	1.668	15.18	583.0
78	13.207	1.7820	2114.0	.8087-01	.9868-01	.9868-01	.9000	.3510-02	.4283-02	2.542	17.92	583.3
78	15.356	1.8370	2130.0	.4840-01	.5910-01	.5910-01	.9000	.2101-02	.2565-02	1.517	14.39	585.4
78	15.356	2.0460	2131.0	.6745-01	.8236-01	.8236-01	.9000	.2928-02	.3575-02	2.114	15.91	585.4
78	15.356	2.2500	2132.0	.7372-01	.9007-01	.9007-01	.9000	.3200-02	.3909-02	2.305	17.95	587.2
78	15.356	2.4530	2133.0	.8083-01	.9903-01	.9903-01	.9000	.3508-02	.4298-02	2.496	20.84	595.1
78	15.356	2.6630	2134.0	.7934-01	.9770-01	.9740-01	.9000	.3443-02	.4227-02	2.428	22.84	602.6
78	15.356	2.8160	2135.0	.6858-01	.8367-01	.8367-01	.9000	.2976-02	.3632-02	2.158	17.46	582.8

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF06)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
121	3.693	8.000	29.97	.4899-02	853.8	1351.	97.87	.8746-01	3.918	3880.	.2412-02	.7876-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
121	.4913-01	.2106-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	HITOI BTU/R FT2SEC	HITAWI BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
121	13.107	1.9620	2115.0	.7723-01	.9419-01	.9419-01	.9000	.3794-02	.4628-02	2.845	25.67	600.8
121	13.107	2.1420	2116.0	.8115-01	.9943-01	.9943-01	.9000	.3987-02	.4886-02	2.929	31.48	616.1
121	13.107	2.3220	2117.0	.7269-01	.8901-01	.8901-01	.9000	.3571-02	.4373-02	2.630	33.29	614.1
121	13.107	2.4480	2118.0	.5941-01	.7192-01	.7192-01	.9000	.2919-02	.3534-02	2.265	19.88	574.6
121	13.170	.78000	2107.0	.5273-01	.6414-01	.6414-01	.9000	.2591-02	.3152-02	1.967	17.84	591.3
121	13.207	1.7820	2114.0	.8112-01	.9868-01	.9868-01	.9000	.3986-02	.4848-02	3.025	21.23	591.7
121	15.356	1.8370	2130.0	.4770-01	.5806-01	.5806-01	.9000	.2344-02	.2853-02	1.775	16.77	593.5
121	15.356	2.0460	2131.0	.6677-01	.8126-01	.8126-01	.9000	.3281-02	.3993-02	2.485	18.62	593.3
121	15.356	2.2500	2132.0	.7307-01	.8902-01	.8902-01	.9000	.3590-02	.4374-02	2.708	20.99	596.6
121	15.356	2.4530	2133.0	.7955-01	.9720-01	.9720-01	.9000	.3909-02	.4776-02	2.908	24.15	606.7
121	15.356	2.6630	2134.0	.7814-01	.9568-01	.9568-01	.9000	.3839-02	.4701-02	2.830	26.48	613.7
121	15.356	2.8160	2135.8	.6842-01	.8318-01	.8318-01	.9000	.3362-02	.4087-02	2.559	20.64	589.5

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL
OH84B 60-0 LOWER MID FUSELAGE

PAGE 729

(R4UF07)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
148	2.006	7.980	29.97	-4.892-02	434.9	1300.	94.62	.4528-01	2.018	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
148	.3503-01	.2867-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
148	13.107	1.9620	2115.0	.7855-01	.9576-01	.9576-01	.9000	.2752-02	.3354-02	1.991	18.19	576.2
148	13.107	2.1420	2116.0	.8308-01	.1016	.1016	.9000	.2910-02	.3558-02	2.076	22.64	586.2
148	13.107	2.3220	2117.0	.7509-01	.9180-01	.9180-01	.9000	.2630-02	.3216-02	1.878	24.10	585.8
148	13.107	2.4480	2118.0	.5863-01	.7121-01	.7121-01	.9000	.2054-02	.2494-02	1.512	13.34	563.7
148	13.170	.78000	2107.0	.5417-01	.6592-01	.6592-01	.9000	.1897-02	.2309-02	1.384	12.67	570.5
148	13.207	1.7820	2114.0	.8178-01	.9955-01	.9955-01	.9000	.2865-02	.3487-02	2.086	14.79	571.4
148	15.356	1.8370	2130.0	.5039-01	.6136-01	.6136-01	.9000	.1765-02	.2150-02	1.283	12.25	572.8
148	15.356	2.0460	2131.0	.6998-01	.8521-01	.8521-01	.9000	.2451-02	.2985-02	1.782	13.49	572.7
148	15.356	2.2500	2132.0	.7619-01	.9285-01	.9285-01	.9000	.2669-02	.3252-02	1.934	15.15	575.0
148	15.356	2.4530	2133.0	.8342-01	.1018	.1018	.9000	.2922-02	.3567-02	2.100	17.67	580.9
148	15.356	2.6630	2134.0	.8236-01	.1007	.1007	.9000	.2885-02	.3528-02	2.058	19.51	586.4
148	15.356	2.8160	2135.0	.6959-01	.8476-01	.8476-01	.9000	.2438-02	.2969-02	1.770	14.39	573.6

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF08)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
52	1.990	7.980	29.94	1.035	434.8	1307.	95.13	.4526-01	2.018	3815.	.1284-02	.7655-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
52	.3506-01	.2877-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
52	13.107	1.9620	2115.0	.7518-01	.9150-01	.9150-01	.9000	.2635-02	.3208-02	1.930	17.65	574.3
52	13.107	2.1420	2116.0	.7899-01	.9642-01	.9642-01	.9000	.2769-02	.3380-02	2.002	21.86	583.9
52	13.107	2.3220	2117.0	.7076-01	.8633-01	.8633-01	.9000	.2481-02	.3026-02	1.797	23.11	582.1
52	13.107	2.4480	2118.0	.5564-01	.6741-01	.6741-01	.9000	.1951-02	.2363-02	1.460	12.92	558.0
52	13.170	.78000	2107.0	.5273-01	.6409-01	.6409-01	.9000	.1848-02	.2247-02	1.362	12.48	569.8
52	13.207	1.7820	2114.0	.8083-01	.9825-01	.9825-01	.9000	.2834-02	.3444-02	2.088	14.81	569.8
52	15.356	1.8370	2130.0	.4843-01	.5889-01	.5889-01	.9000	.1698-02	.2064-02	1.249	11.93	571.0
52	15.356	2.0460	2131.0	.6757-01	.8215-01	.8215-01	.9000	.2369-02	.2880-02	1.744	13.22	570.4
52	15.356	2.2500	2132.0	.7324-01	.8909-01	.8909-01	.9000	.2567-02	.3123-02	1.885	14.79	572.3
52	15.356	2.4530	2133.0	.7896-01	.9620-01	.9620-01	.9000	.2768-02	.3372-02	2.018	17.00	577.8
52	15.356	2.6630	2134.0	.7694-01	.9387-01	.9387-01	.9000	.2697-02	.3291-02	1.954	18.56	582.3
52	15.356	2.8160	2135.0	.6313-01	.7670-01	.7670-01	.9000	.2213-02	.2689-02	1.634	13.32	568.2

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF10)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 30.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
56	1.998	7.980	29.94	2.039	435.1	1304.	94.91	.4530-01	2.019	3811.	.1288-02	.7637-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
56	.3505-01	.2872-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
56	13.107	1.9620	2115.0	.7189-01	.8749-01	.8749-01	.9000	.2520-02	.3067-02	1.842	16.86	572.6
56	13.107	2.1420	2116.0	.7483-01	.9133-01	.9133-01	.9000	.2623-02	.3202-02	1.893	20.69	582.0
56	13.107	2.3220	2117.0	.6626-01	.8082-01	.8082-01	.9000	.2323-02	.2833-02	1.681	21.64	579.9
56	13.107	2.4480	2118.0	.5165-01	.6256-01	.6256-01	.9000	.1810-02	.2193-02	1.353	11.98	556.2
56	13.170	.78000	2107.0	.5152-01	.6262-01	.6262-01	.9000	.1806-02	.2195-02	1.328	12.18	568.4
56	13.207	1.7820	2114.0	.7640-01	.9286-01	.9286-01	.9000	.2678-02	.3255-02	1.970	13.98	568.3
56	15.356	1.8370	2130.0	.4674-01	.5683-01	.5683-01	.9000	.1638-02	.1992-02	1.203	11.50	569.6
56	15.356	2.0460	2131.0	.6472-01	.7868-01	.7868-01	.9000	.2269-02	.2758-02	1.566	12.64	569.2
56	15.356	2.2500	2132.0	.7043-01	.8567-01	.8567-01	.9000	.2469-02	.3003-02	1.809	14.20	571.0
56	15.356	2.4530	2133.0	.7573-01	.9230-01	.9230-01	.9000	.2655-02	.3236-02	1.928	16.25	577.4
56	15.356	2.6630	2134.0	.7189-01	.8770-01	.8770-01	.9000	.2520-02	.3074-02	1.823	17.33	580.5
56	15.356	2.8160	2135.0	.6016-01	.7307-01	.7307-01	.9000	.2109-02	.2562-02	1.556	12.69	566.0

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF11)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
166	2.097	7.980	34.98	-4.060	435.1	1300.	94.62	.4530-01	2.019	3805.	.1292-02	.7614-07

RUN NUMBER	HREF BTU/R FT2SEC	STN NO REF (R) =.0175
166	.3504-01	.2866-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
166	13.107	1.9620	2115.0	.9785-01	.1199	.1199	.9000	.3428-02	.4202-02	2.420	21.92	593.7
166	13.107	2.1420	2116.0	.1039	.1279	.1279	.9000	.3640-02	.4481-02	2.521	27.22	607.0
166	13.107	2.3220	2117.0	.9342-01	.1149	.1149	.9000	.3273-02	.4027-02	2.271	28.86	605.9
166	13.107	2.4480	2118.0	.7554-01	.9202-01	.9202-01	.9000	.2647-02	.3224-02	1.921	16.86	574.0
166	13.170	.78000	2107.0	.6628-01	.8106-01	.8106-01	.9000	.2322-02	.2840-02	1.655	15.04	586.9
166	13.207	1.7820	2114.0	.1003	.1227	.1227	.9000	.3515-02	.4298-02	2.508	17.65	586.1
166	15.356	1.8370	2130.0	.6050-01	.7398-01	.7398-01	.9000	.2120-02	.2592-02	1.513	14.35	586.1
166	15.356	2.0460	2131.0	.8396-01	.1026	.1026	.9000	.2942-02	.3596-02	2.101	15.81	585.4
166	15.356	2.2500	2132.0	.9153-01	.1119	.1119	.9000	.3207-02	.3922-02	2.286	17.81	586.8
166	15.356	2.4530	2133.0	.1017	.1248	.1248	.9000	.3565-02	.4371-02	2.511	20.97	595.3
166	15.356	2.6630	2134.0	.9926-01	.1220	.1220	.9000	.3478-02	.4274-02	2.427	22.84	601.9
166	15.356	2.8160	2135.0	.8265-01	.1010	.1010	.9000	.2896-02	.3540-02	2.069	16.72	585.2

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R40F11)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
109	3.001	7.990	34.99	-4.047	671.6	1325.	96.21	.6936-01	3.099	3842.	.1946-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC = .0175	STN NO REF(R) = .2340-01
109	.4355-01	.2340-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
109	13.107	1.9620	2115.0	.9309-01	.1145	.1145	.9000	.4054-02	.4987-02	2.870	25.69	616.8
109	13.107	2.1420	2116.0	.9602-01	.1189	.1189	.9000	.4182-02	.5177-02	2.882	30.69	635.4
109	13.107	2.3220	2117.0	.8555-01	.1059	.1059	.9000	.3726-02	.4612-02	2.568	32.17	635.5
109	13.107	2.4480	2118.0	.7334-01	.8946-01	.8946-01	.9000	.3194-02	.3896-02	2.348	20.45	589.6
109	13.170	.78000	2107.0	.6173-01	.7568-01	.7568-01	.9000	.2689-02	.3296-02	1.932	17.39	605.9
109	13.207	1.7820	2114.0	.9829-01	.1205	.1205	.9000	.4281-02	.5246-02	3.080	21.47	605.2
109	15.356	1.8370	2130.0	.5614-01	.6877-01	.6877-01	.9000	.2445-02	.2995-02	1.762	16.57	603.8
109	15.356	2.0460	2131.0	.7881-01	.9656-01	.9656-01	.9000	.3433-02	.4205-02	2.474	18.45	603.8
109	15.356	2.2500	2132.0	.8651-01	.1061	.1061	.9000	.3769-02	.4522-02	2.700	20.81	608.1
109	15.356	2.4530	2133.0	.9482-01	.1168	.1168	.9000	.4129-02	.5086-02	2.909	24.00	620.2
109	15.356	2.6630	2134.0	.9027-01	.1115	.1115	.9000	.3931-02	.4854-02	2.740	25.46	627.8
109	15.356	2.8160	2135.0	.7832-01	.9586-01	.9586-01	.9000	.3411-02	.4175-02	2.469	19.80	600.8

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF11)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPD BRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
143	3.686	8.000	34.98	-4.043	854.1	1353.	98.02	.8749-01	3.919	3883.	.2409-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
143	.4915-01	.2108-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
143	13.107	1.9620	2115.0	.9588-01	.1176	.1176	.9000	.4713-02	.5783-02	3.447	30.79	621.4
143	13.107	2.1420	2116.0	.1001	.1235	.1235	.9000	.4922-02	.6071-02	3.518	37.41	638.0
143	13.107	2.3220	2117.0	.9101-01	.1122	.1122	.9000	.4474-02	.5518-02	3.199	40.03	637.6
143	13.107	2.4480	2118.0	.7593-01	.9237-01	.9237-01	.9000	.3732-02	.4540-02	2.838	24.68	592.4
143	13.170	.78000	2107.0	.6482-01	.7924-01	.7924-01	.9000	.3186-02	.3895-02	2.368	21.27	609.6
143	13.207	1.7820	2114.0	.1010	.1235	.1235	.9000	.4966-02	.6072-02	3.689	25.66	609.9
143	15.356	1.8370	2130.0	.5915-01	.7230-01	.7230-01	.9000	.2907-02	.3554-02	2.162	20.27	609.2
143	15.356	2.0460	2131.0	.8243-01	.1007	.1007	.9000	.4052-02	.4952-02	3.015	22.43	608.5
143	15.356	2.2500	2132.0	.9003-01	.1102	.1102	.9000	.4426-02	.5415-02	3.277	25.20	612.3
143	15.356	2.4530	2133.0	.9946-01	.1222	.1222	.9000	.4889-02	.6005-02	3.559	29.30	624.8
143	15.356	2.6630	2134.0	.9569-01	.1179	.1179	.9000	.4704-02	.5794-02	3.382	31.34	633.7
143	15.356	2.8160	2135.0	.8247-01	.1007	.1007	.9000	.4054-02	.4951-02	3.025	24.20	606.4

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

PAGE 735

OH84B 60-0 LOWER MID FUSELAGE

(R4UF12)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
163	2.006	7.980	35.01	-1.994	434.8	1300.	94.62	.4527-01	2.018	3805.	.1221-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
163	.3503-01	.2867-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TM DEG. R
163	13.107	1.9620	2115.0	.9236-01	.1130	.1130	.9000	.3235-02	.3960-02	2.297	20.85	589.5
163	13.107	2.1420	2116.0	.9753-01	.1199	.1199	.9000	.3416-02	.4198-02	2.384	25.80	601.9
163	13.107	2.3220	2117.0	.8637-01	.1061	.1061	.9000	.3025-02	.3715-02	2.118	26.99	599.7
163	13.107	2.4480	2118.0	.6849-01	.8333-01	.8333-01	.9000	.2399-02	.2918-02	1.751	15.40	569.8
163	13.170	.78000	2107.0	.6464-01	.7898-01	.7898-01	.9000	.2264-02	.2766-02	1.620	14.74	584.1
163	13.207	1.7820	2114.0	.9610-01	.1174	.1174	.9000	.3366-02	.4111-02	2.414	17.02	582.5
163	15.356	1.8370	2130.0	.5794-01	.7078-01	.7078-01	.9000	.2029-02	.2479-02	1.454	13.81	583.3
163	15.356	2.0460	2131.0	.7956-01	.9717-01	.9717-01	.9000	.2787-02	.3404-02	1.998	15.06	582.6
163	15.356	2.2500	2132.0	.8631-01	.1055	.1055	.9000	.3023-02	.3693-02	2.164	16.88	583.8
163	15.356	2.4530	2133.0	.9449-01	.1157	.1157	.9000	.3310-02	.4054-02	2.344	19.61	591.5
163	15.356	2.6630	2134.0	.9097-01	.1116	.1116	.9000	.3186-02	.3909-02	2.239	21.12	596.9
163	15.356	2.8160	2135.0	.7538-01	.9198-01	.9198-01	.9000	.2640-02	.3222-02	1.901	15.40	579.7

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF12)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
106	3.013	7.990	35.02	-1.984	670.6	1320.	95.85	.6925-01	3.095	3835.	.1950-02	.7713-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
106	.4349-01	.2337-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
106	13.107	1.9620	2115.0	.9219-01	.1129	.1129	.9000	.4009-02	.4909-02	2.889	26.09	599.2
106	13.107	2.1420	2116.0	.9624-01	.1184	.1184	.9000	.4186-02	.5149-02	2.952	31.75	614.5
106	13.107	2.3220	2117.0	.8597-01	.1057	.1057	.9000	.3739-02	.4598-02	2.641	33.44	613.3
106	13.107	2.4480	2118.0	.6924-01	.8414-01	.8414-01	.9000	.3011-02	.3659-02	2.244	19.70	574.4
106	13.170	.78000	2107.0	.6376-01	.7786-01	.7786-01	.9000	.2773-02	.3386-02	2.021	18.33	590.7
106	13.207	1.7820	2114.0	.9922-01	.1211	.1211	.9000	.4315-02	.5268-02	3.149	22.11	590.0
106	15.356	1.8370	2130.0	.5745-01	.7015-01	.7015-01	.9000	.2498-02	.3051-02	1.821	17.23	590.8
106	15.356	2.0460	2131.0	.7967-01	.9727-01	.9727-01	.9000	.3465-02	.4230-02	2.528	18.98	590.1
106	15.356	2.2500	2132.0	.8641-01	.1056	.1056	.9000	.3758-02	.4592-02	2.731	21.20	593.0
106	15.356	2.4530	2133.0	.9393-01	.1151	.1151	.9000	.4085-02	.5007-02	2.928	24.37	602.9
106	15.356	2.6630	2134.0	.9045-01	.1111	.1111	.9000	.3934-02	.4832-02	2.793	26.19	609.6
106	15.356	2.8160	2135.0	.7593-01	.9260-01	.9260-01	.9000	.3302-02	.4027-02	2.421	19.55	586.6

DATE 15 MAY 80

OH248 MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH248 60-0 LOWER MID FUSELAGE

(R4UF12)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -2.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
140	3.583	8.000	35.02	-1.979	853.5	1353.	93.02	.8743-01	3.917	3883.	.2407-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
140	.4914-01	.2109-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
140	13.107	1.9620	2115.0	.9196-01	.1126	.1126	.9000	.4519-02	.5534-02	3.331	29.85	615.4
140	13.107	2.1420	2116.0	.9575-01	.1178	.1178	.9000	.4705-02	.5788-02	3.400	36.30	629.9
140	13.107	2.3220	2117.0	.8663-01	.1065	.1065	.9000	.4257-02	.5234-02	3.085	38.78	628.0
140	13.107	2.4480	2118.0	.6951-01	.8441-01	.8441-01	.9000	.3416-02	.4148-02	2.617	22.83	586.5
140	13.170	.78000	2107.0	.6384-01	.7799-01	.7799-01	.9000	.3137-02	.3832-02	2.338	21.03	607.3
140	13.207	1.7820	2114.0	.9691-01	.1183	.1183	.9000	.4762-02	.5815-02	3.558	24.80	605.4
140	15.356	1.8370	2130.0	.5786-01	.7067-01	.7067-01	.9000	.2843-02	.3473-02	2.123	19.93	606.2
140	15.356	2.0460	2131.0	.8013-01	.9784-01	.9784-01	.9000	.3937-02	.4808-02	2.943	21.93	605.3
140	15.356	2.2500	2132.0	.8637-01	.1056	.1056	.9000	.4244-02	.5187-02	3.158	24.34	608.5
140	15.356	2.4530	2133.0	.9372-01	.1149	.1149	.9000	.4605-02	.5647-02	3.377	27.87	619.5
140	15.356	2.6630	2134.0	.9034-01	.1110	.1110	.9000	.4439-02	.5456-02	3.222	29.96	626.8
140	15.356	2.8160	2135.0	.7576-01	.9236-01	.9236-01	.9000	.3722-02	.4538-02	2.800	22.47	600.3

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF13)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10.6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
160	2.003	7.980	35.01	-.9963	435.2	1302.	94.76	.4531-01	2.020	3808.	.1290-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
160	.3505-01	.2869-01

TEST DATA

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
160	13.107	1.9620	2115.0	.9029-01	.1103	.1103	.9000	.3165-02	.3867-02	2.269	20.64	584.6
160	13.107	2.1420	2116.0	.9173-01	.1162	.1162	.9000	.3320-02	.4072-02	2.342	25.42	596.2
160	13.107	2.3220	2117.0	.8392-01	.1028	.1028	.9000	.2942-02	.3604-02	2.083	26.63	593.6
160	13.107	2.4480	2118.0	.6563-01	.7972-01	.7972-01	.9000	.2300-02	.2794-02	1.695	14.94	565.0
160	13.170	.78000	2107.0	.6489-01	.7916-01	.7916-01	.9000	.2274-02	.2775-02	1.642	14.97	579.8
160	13.207	1.7820	2114.0	.9813-01	.1196	.1196	.9000	.3439-02	.4194-02	2.489	17.59	577.9
160	15.356	1.8370	2130.0	.5781-01	.7052-01	.7052-01	.9000	.2025-02	.2472-02	1.463	13.93	579.4
160	15.356	2.0460	2131.0	.7995-01	.9751-01	.9751-01	.9000	.2802-02	.3418-02	2.026	15.30	578.7
160	15.356	2.2500	2132.0	.8523-01	.1040	.1040	.9000	.2988-02	.3644-02	2.157	16.86	579.6
160	15.356	2.4530	2133.0	.9189-01	.1123	.1123	.9000	.3221-02	.3938-02	2.302	19.31	585.8
160	15.356	2.6630	2134.0	.8851-01	.1084	.1084	.9000	.3102-02	.3799-02	2.203	20.84	591.4
160	15.356	2.8160	2135.0	.7201-01	.8771-01	.8771-01	.9000	.2524-02	.3074-02	1.835	14.91	574.5

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF13)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
103	3.014	-7.990	35.03	-.9919	669.2	1318.	95.71	.6911-01	3.088	3832.	.1949-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
103	.4343-01	.2337-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
103	13.107	1.9620	2115.0	.9024-01	.1104	.1104	.9000	.3919-02	.4796-02	2.824	25.53	597.1
103	13.107	2.1420	2116.0	.9445-01	.1161	.1161	.9000	.4102-02	.5043-02	2.899	31.24	610.9
103	13.107	2.3220	2117.0	.8377-01	.1029	.1029	.9000	.3639-02	.4470-02	2.579	32.72	609.0
103	13.107	2.4480	2118.0	.6622-01	.8047-01	.8047-01	.9000	.2876-02	.3495-02	2.141	18.81	573.2
103	13.170	.78000	2107.0	.6386-01	.7797-01	.7797-01	.9000	.2774-02	.3387-02	2.020	18.33	589.6
103	13.207	1.7820	2114.0	.9614-01	.1174	.1174	.9000	.4176-02	.5098-02	3.043	21.38	589.0
103	15.356	1.8370	2130.0	.5686-01	.6947-01	.6947-01	.9000	.2470-02	.3017-02	1.793	16.96	591.6
103	15.356	2.0460	2131.0	.7933-01	.9690-01	.9690-01	.9000	.3446-02	.4209-02	2.505	18.80	590.8
103	15.356	2.2500	2132.0	.8500-01	.1039	.1039	.9000	.3692-02	.4513-02	2.674	20.76	593.4
103	15.356	2.4530	2133.0	.9184-01	.1126	.1126	.9000	.3989-02	.4890-02	2.853	23.75	602.3
103	15.356	2.6630	2134.0	.8855-01	.1087	.1087	.9000	.3846-02	.4723-02	2.730	25.61	608.0
103	15.356	2.8160	2135.0	.7202-01	.8783-01	.8783-01	.9000	.3128-02	.3815-02	2.289	18.50	585.8

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF13)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = -1.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
137	3.676	8.000	35.07	-1.9690	851.9	1353.	98.02	.8726-01	3.909	3883.	.2403-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
137	.4909-01	.2111-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
137	13.107	1.9620	2115.0	.8876-01	.1087	.1087	.9000	.4357-02	.5337-02	3.212	28.78	615.5
137	13.107	2.1420	2116.0	.9161-01	.1127	.1127	.9000	.4497-02	.5533-02	3.249	34.69	630.1
137	13.107	2.3220	2117.0	.8143-01	.1001	.1001	.9000	.3997-02	.4914-02	2.899	36.45	627.5
137	13.107	2.4480	2118.0	.6574-01	.7979-01	.7979-01	.9000	.3227-02	.3917-02	2.479	21.65	584.4
137	13.170	.78000	2107.0	.6285-01	.7677-01	.7677-01	.9000	.3086-02	.3769-02	2.302	20.71	606.6
137	13.207	1.7820	2114.0	.9527-01	.1163	.1163	.9000	.4677-02	.5711-02	3.494	24.36	605.5
137	15.356	1.8370	2130.0	.5605-01	.6850-01	.6850-01	.9000	.2751-02	.3363-02	2.047	19.20	608.6
137	15.356	2.0460	2131.0	.7830-01	.9567-01	.9567-01	.9000	.3844-02	.4697-02	2.863	21.31	607.7
137	15.356	2.2500	2132.0	.8358-01	.1022	.1022	.9000	.4103-02	.5018-02	3.043	23.42	610.9
137	15.356	2.4530	2133.0	.8951-01	.1098	.1098	.9000	.4394-02	.5392-02	3.212	26.48	621.7
137	15.356	2.6630	2134.0	.8464-01	.1041	.1041	.9000	.4155-02	.5109-02	3.011	27.98	628.0
137	15.356	2.8160	2135.0	.7113-01	.8671-01	.8671-01	.9000	.3492-02	.4257-02	2.629	21.10	599.7

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF14)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
15	.5155	7.900	34.95	.2148-02	101.7	1243.	92.17	.1130-01	.4937	3718.	.3309-03	.7417-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
15	.1719-01	.5638-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
15	13.107	1.9620	2115.0	.9168-01	.1120	.1120	.9000	.1576-02	.1925-02	1.081	9.965	557.0
15	13.107	2.1420	2116.0	.9706-01	.1187	.1187	.9000	.1669-02	.2041-02	1.136	12.54	561.8
15	13.107	2.3220	2117.0	.8463-01	.1035	.1035	.9000	.1455-02	.1779-02	.9922	12.89	560.6
15	13.107	2.4480	2118.0	.6324-01	.7704-01	.7704-01	.9000	.1087-02	.1324-02	.7541	6.704	549.0
15	13.170	.78000	2107.0	.6839-01	.8348-01	.8348-01	.9000	.1176-02	.1435-02	.8080	7.458	555.3
15	13.207	1.7820	2114.0	.9386-01	.1145	.1145	.9000	.1613-02	.1969-02	1.111	7.939	554.4
15	15.356	1.8370	2130.0	.6100-01	.7446-01	.7446-01	.9000	.1049-02	.1280-02	.7206	6.940	555.4
15	15.356	2.0460	2131.0	.8296-01	.1013	.1013	.9000	.1426-02	.1740-02	.9808	7.493	554.9
15	15.356	2.2500	2132.0	.8738-01	.1066	.1066	.9000	.1502-02	.1833-02	1.034	8.181	554.5
15	15.356	2.4530	2133.0	.9572-01	.1169	.1169	.9000	.1645-02	.2010-02	1.127	9.588	557.8
15	15.356	2.6630	2134.0	.9177-01	.1122	.1122	.9000	.1577-02	.1929-02	1.077	10.34	560.2
15	15.356	2.8160	2135.0	.7199-01	.8783-01	.8783-01	.9000	.1237-02	.1510-02	.8524	6.999	553.8

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL
OH84B 60-0 LOWER MID FUSELAGE

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(R4UF14)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
62	1.995	7.980	34.99	-.1400-02	434.9	1305.	94.98	.4527-01	2.018	3813.	.1287-02	.7643-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
62	.3505-01	.2874-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
62	13.107	1.9620	2115.0	.8880-01	.1084	.1084	.9000	.3113-02	.3800-02	2.246	20.44	583.2
62	13.107	2.1420	2116.0	.9340-01	.1144	.1144	.9000	.3274-02	.4009-02	2.328	25.30	593.6
62	13.107	2.3220	2117.0	.8226-01	.1007	.1007	.9000	.2883-02	.3528-02	2.058	26.34	591.0
62	13.107	2.4480	2118.0	.6374-01	.7736-01	.7736-01	.9000	.2234-02	.2711-02	1.657	14.62	563.3
62	13.170	.78000	2107.0	.6566-01	.8005-01	.8005-01	.9000	.2302-02	.2806-02	1.671	15.24	578.7
62	13.207	1.7820	2114.0	.9390-01	.1144	.1144	.9000	.3291-02	.4011-02	2.394	16.92	577.2
62	15.356	1.8370	2130.0	.5735-01	.6994-01	.6994-01	.9000	.2010-02	.2452-02	1.457	13.86	580.0
62	15.356	2.0460	2131.0	.7826-01	.9543-01	.9543-01	.9000	.2743-02	.3345-02	1.990	15.02	579.3
62	15.356	2.2500	2132.0	.8379-01	.1022	.1022	.9000	.2937-02	.3582-02	2.128	16.63	580.0
62	15.356	2.4530	2133.0	.8990-01	.1099	.1099	.9000	.3151-02	.3851-02	2.262	18.97	587.0
62	15.356	2.6630	2134.0	.8586-01	.1051	.1051	.9000	.3009-02	.3683-02	2.147	20.31	591.2
62	15.356	2.8160	2135.0	.7099-01	.8644-01	.8644-01	.9000	.2488-02	.3030-02	1.817	14.77	574.3

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF14)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
81	3.030	7.990	35.02	-.6903-03	670.5	1315.	95.49	.6924-01	3.094	3827.	.1957-02	.7684-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
81	.4346-01	.2332-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
81	13.107	1.9620	2115.0	.8629-01	.1057	.1057	.9000	.3750-02	.4592-02	2.689	24.30	597.6
81	13.107	2.1420	2116.0	.8957-01	.1102	.1102	.9000	.3893-02	.4788-02	2.739	29.50	611.2
81	13.107	2.3220	2117.0	.7898-01	.9705-01	.9705-01	.9000	.3433-02	.4218-02	2.424	30.76	608.5
81	13.107	2.4480	2118.0	.6286-01	.7637-01	.7637-01	.9000	.2732-02	.3319-02	2.030	17.84	571.5
81	13.170	.78000	2107.0	.6272-01	.7661-01	.7661-01	.9000	.2726-02	.3329-02	1.976	17.93	589.7
81	13.207	1.7820	2114.0	.9180-01	.1121	.1121	.9000	.3990-02	.4873-02	2.893	20.33	589.5
81	15.356	1.8370	2130.0	.5506-01	.6732-01	.6732-01	.9000	.2393-02	.2926-02	1.726	16.31	593.2
81	15.356	2.0460	2131.0	.7575-01	.9258-01	.9258-01	.9000	.3292-02	.4023-02	2.381	17.86	591.5
81	15.356	2.2500	2132.0	.8133-01	.9948-01	.9948-01	.9000	.3534-02	.4323-02	2.547	19.76	594.1
81	15.356	2.4530	2133.0	.8668-01	.1063	.1063	.9000	.3767-02	.4621-02	2.681	22.30	603.1
81	15.356	2.6630	2134.0	.8204-01	.1009	.1009	.9000	.3565-02	.4380-02	2.520	23.64	607.9
81	15.356	2.8160	2135.0	.6939-01	.8462-01	.8462-01	.9000	.3016-02	.3678-02	2.203	17.81	584.2

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF14)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 35.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
134	3.680	8.000	35.02	-.6917-03	852.8	1353.	90.02	.8735-01	3.913	3883.	.2405-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
134	.4912-01	.2109-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
134	13.107	1.9620	2115.0	.8454-01	.1035	.1035	.9000	.4152-02	.5084-02	3.065	27.48	614.4
134	13.107	2.1420	2116.0	.8684-01	.1068	.1068	.9000	.4266-02	.5248-02	3.082	32.90	630.2
134	13.107	2.3220	2117.0	.7673-01	.9429-01	.9429-01	.9000	.3769-02	.4631-02	2.737	34.43	626.5
134	13.107	2.4480	2118.0	.6188-01	.7504-01	.7504-01	.9000	.3039-02	.3686-02	2.344	20.50	581.5
134	13.170	.78000	2107.0	.6183-01	.7553-01	.7553-01	.9000	.3037-02	.3710-02	2.265	20.38	606.9
134	13.207	1.7820	2114.0	.9210-01	.1124	.1124	.9000	.4524-02	.5523-02	3.382	23.58	605.1
134	15.356	1.8370	2130.0	.5386-01	.6584-01	.6584-01	.9000	.2646-02	.3234-02	1.968	18.46	608.8
134	15.356	2.0460	2131.0	.7538-01	.9211-01	.9211-01	.9000	.3703-02	.4524-02	2.758	20.52	607.9
134	15.356	2.2500	2132.0	.8030-01	.9820-01	.9820-01	.9000	.3944-02	.4823-02	2.926	22.53	610.7
134	15.356	2.4530	2133.0	.8483-01	.1041	.1041	.9000	.4167-02	.5111-02	3.050	25.16	620.7
134	15.356	2.6530	2134.0	.7973-01	.9795-01	.9795-01	.9000	.3916-02	.4811-02	2.847	26.48	625.6
134	15.356	2.8160	2135.0	.6610-01	.8051-01	.8051-01	.9000	.3247-02	.3954-02	2.454	19.72	596.9

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL
OH84B 60-0 LOWER MID FUSELAGE

PAGE 745

(R4UF15)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SFDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
203	.4973	7.900	39.90	-10.06	99.51	1255.	93.06	.1106-01	.4831	3736.	.3207-03	.7489-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
203	.1703-01	.5732-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
203	13.107	1.9620	2115.0	.1272	.1551	.1551	.9000	.2166-02	.2642-02	1.511	13.93	557.2
203	13.107	2.1420	2116.0	.1380	.1687	.1687	.9000	.2351-02	.2873-02	1.623	17.89	564.4
203	13.107	2.3220	2117.0	.1290	.1576	.1576	.9000	.2197-02	.2685-02	1.516	19.66	564.7
203	13.107	2.4480	2118.0	.1036	.1260	.1260	.9000	.1764-02	.2146-02	1.244	11.05	549.9
203	13.170	.78000	2107.0	.8413-01	.1024	.1024	.9000	.1433-02	.1744-02	1.009	9.332	550.8
203	13.207	1.7820	2114.0	.1338	.1629	.1629	.9000	.2279-02	.2775-02	1.600	11.45	552.5
203	15.356	1.8370	2130.0	.7881-01	.9592-01	.9592-01	.9000	.1343-02	.1634-02	.9443	9.114	551.3
203	15.356	2.0460	2131.0	.1095	.1333	.1333	.9000	.1865-02	.2270-02	1.312	10.04	551.2
203	15.356	2.2500	2132.0	.1206	.1468	.1468	.9000	.2054-02	.2501-02	1.441	11.41	553.1
203	15.356	2.4530	2133.0	.1366	.1667	.1667	.9000	.2327-02	.2839-02	1.619	13.77	558.8
203	15.356	2.6630	2134.0	.1363	.1665	.1665	.9000	.2322-02	.2837-02	1.605	15.40	563.4
203	15.356	2.8160	2135.0	.1158	.1411	.1411	.9000	.1972-02	.2403-02	1.380	11.32	555.1

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF15)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
190	1.004	7.940	39.95	-10.04	205.0	1261.	-92.64	.2205-01	.9731	3746.	.6425-03	.7454-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
190	.2419-01	.4052-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
190	13.107	1.9620	2115.0	.1223	.1498	.1498	.9000	.2959-02	.3625-02	2.030	18.56	574.6
190	13.107	2.1420	2116.0	.1311	.1612	.1612	.9000	.3171-02	.3901-02	2.136	23.29	587.1
190	13.107	2.3220	2117.0	.1200	.1477	.1477	.9000	.2904-02	.3573-02	1.954	25.06	587.6
190	13.107	2.4480	2118.0	.9971-01	.1217	.1217	.9000	.2412-02	.2944-02	1.685	14.88	562.1
190	13.170	.78000	2107.0	.8085-01	.9875-01	.9875-01	.9000	.1956-02	.2389-02	1.361	12.50	565.1
190	13.207	1.7820	2114.0	.1266	.1548	.1548	.9000	.3064-02	.3746-02	2.121	15.06	568.3
190	15.356	1.8370	2130.0	.7512-01	.9179-01	.9179-01	.9000	.1817-02	.2221-02	1.261	12.08	566.7
190	15.356	2.0460	2131.0	.1049	.1283	.1283	.9000	.2539-02	.3103-02	1.761	13.37	567.0
190	15.356	2.2500	2132.0	.1170	.1432	.1432	.9000	.2832-02	.3465-02	1.955	15.35	570.3
190	15.356	2.4530	2133.0	.1306	.1602	.1602	.9000	.3160-02	.3875-02	2.158	18.18	577.8
190	15.356	2.6630	2134.0	.1270	.1561	.1561	.9000	.3073-02	.3777-02	2.080	19.75	583.9
190	15.356	2.8160	2135.0	.1098	.1343	.1343	.9000	.2657-02	.3250-02	1.834	14.94	570.3

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF15)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
172	2.004	7.980	39.98	-10.09	434.9	1301.	94.69	.4528-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
172	.3503-01	.2868-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
172	13.107	1.9620	2115.0	.1192	.1469	.1469	.9000	.4175-02	.5147-02	2.875	25.80	612.1
172	13.107	2.1420	2116.0	.1268	.1572	.1572	.9000	.4442-02	.5508-02	2.984	31.87	628.9
172	13.107	2.3220	2117.0	.1162	.1441	.1441	.9000	.4071-02	.5049-02	2.733	34.34	629.3
172	13.107	2.4480	2118.0	.9834-01	.1204	.1204	.9000	.3445-02	.4217-02	2.448	21.32	590.2
172	13.170	.78000	2107.0	.7816-01	.9590-01	.9590-01	.9000	.2738-02	.3360-02	1.925	17.40	597.6
172	13.207	1.7820	2114.0	.1256	.1544	.1544	.9000	.4401-02	.5407-02	3.076	21.48	601.8
172	15.356	1.8370	2130.0	.7162-01	.8798-01	.8798-01	.9000	.2509-02	.3082-02	1.756	16.53	601.0
172	15.356	2.0460	2131.0	.1016	.1248	.1248	.9000	.3560-02	.4374-02	2.489	18.58	611.5
172	15.356	2.2500	2132.0	.1129	.1389	.1389	.9000	.3955-02	.4866-02	2.747	21.19	606.1
172	15.356	2.4530	2133.0	.1266	.1563	.1563	.9000	.4434-02	.5477-02	3.027	25.00	619.1
172	15.356	2.6630	2134.0	.1231	.1524	.1524	.9000	.4311-02	.5341-02	2.910	27.07	625.7
172	15.356	2.8160	2135.0	.1086	.1335	.1335	.9000	.3805-02	.4676-02	2.654	21.27	603.0

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF15)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
100	3.008	7.990	40.00	-10.10	673.1	1325.	96.21	.6951-01	3.106	3842.	.1950-02	.7742-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
100	.4360-01	.2338-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTMDT DEG. R /SEC	TW DEG. R
100	13.107	1.9620	2115.0	.1150	.1424	.1424	.9000	.5015-02	.6208-02	3.457	30.67	635.3
100	13.107	2.1420	2116.0	.1208	.1506	.1506	.9000	.5268-02	.6565-02	3.533	37.28	654.0
100	13.107	2.3220	2117.0	.1111	.1385	.1385	.9000	.4844-02	.6037-02	3.246	40.28	654.6
100	13.107	2.4480	2118.0	.9770-01	.1198	.1198	.9000	.4250-02	.5222-02	3.064	26.48	605.4
100	13.170	.78000	2107.0	.7564-01	.9305-01	.9305-01	.9000	.3298-02	.4057-02	2.335	20.90	616.8
100	13.207	1.7820	2114.0	.1238	.1526	.1526	.9000	.5400-02	.6653-02	3.796	26.25	621.7
100	15.356	1.8370	2130.0	.6804-01	.8381-01	.8381-01	.9000	.2967-02	.3654-02	2.089	19.48	620.6
100	15.356	2.0460	2131.0	.9696-01	.1195	.1195	.9000	.4227-02	.5209-02	2.973	21.98	621.5
100	15.356	2.2500	2132.0	.1085	.1339	.1339	.9000	.4729-02	.5839-02	3.295	25.15	627.9
100	15.356	2.4530	2133.0	.1207	.1499	.1499	.9000	.5264-02	.6534-02	3.588	29.28	643.1
100	15.356	2.6630	2134.0	.1162	.1447	.1447	.9000	.5068-02	.6310-02	3.411	31.33	651.7
100	15.356	2.8160	2135.0	.1039	.1280	.1280	.9000	.4532-02	.5582-02	3.190	25.34	620.7

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF17)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
200	.5083	7.900	39.97	-3.996	100.7	1247.	92.47	.1119-01	.4891	3724.	.3268-03	.7441-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
200	.1712-01	.5675-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
200	13.107	1.9620	2115.0	.1104	.1346	.1346	.9000	.1890-02	.2305-02	1.310	12.10	553.8
200	13.107	2.1420	2116.0	.1162	.1421	.1421	.9000	.1990-02	.2432-02	1.365	15.07	561.0
200	13.107	2.3220	2117.0	.1021	.1247	.1247	.9000	.1748-02	.2135-02	1.201	15.61	559.7
200	13.107	2.4480	2118.0	.7837-01	.9525-01	.9525-01	.9000	.1342-02	.1631-02	.9436	8.412	543.3
200	13.170	.78000	2107.0	.7948-01	.9678-01	.9678-01	.9000	.1361-02	.1657-02	.9489	8.765	549.3
200	13.207	1.7820	2114.0	.1164	.1417	.1417	.9000	.1992-02	.2426-02	1.388	9.949	549.7
200	15.356	1.8370	2130.0	.7149-01	.8706-01	.8706-01	.9000	.1224-02	.1490-02	.8529	8.237	549.8
200	15.356	2.0460	2131.0	.9738-01	.1186	.1186	.9000	.1667-02	.2030-02	1.162	8.906	549.4
200	15.356	2.2500	2132.0	.1055	.1285	.1285	.9000	.1808-02	.2201-02	1.257	9.970	550.7
200	15.356	2.4530	2133.0	.1151	.1404	.1404	.9000	.1971-02	.2404-02	1.362	11.61	555.4
200	15.356	2.6630	2134.0	.1092	.1333	.1333	.9000	.1869-02	.2282-02	1.286	12.36	558.5
200	15.356	2.8160	2135.0	.8517-01	.1037	.1037	.9000	.1458-02	.1775-02	1.017	8.371	549.1

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF17)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
187	1.008	7.940	39.96	-3.991	205.0	1257.	92.34	.2205-01	.9731	3740.	.6445-03	.7431-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
187	.2418-01	.4044-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
187	13.107	1.9620	2115.0	.1062	.1299	.1299	.9000	.2568-02	.3142-02	1.767	16.20	568.6
187	13.107	2.1420	2116.0	.1112	.1365	.1365	.9000	.2688-02	.3300-02	1.823	19.95	578.6
187	13.107	2.3220	2117.0	.9734-01	.1194	.1194	.9000	.2354-02	.2887-02	1.600	20.63	576.8
187	13.107	2.4480	2118.0	.7659-01	.9326-01	.9326-01	.9000	.1852-02	.2255-02	1.302	11.54	553.7
187	13.170	.78000	2107.0	.7664-01	.9360-01	.9360-01	.9000	.1853-02	.2263-02	1.285	11.82	563.1
187	13.207	1.7820	2114.0	.1152	.1407	.1407	.9000	.2786-02	.3403-02	1.930	13.74	563.7
187	15.356	1.8370	2130.0	.6805-01	.8315-01	.8315-01	.9000	.1646-02	.2011-02	1.139	10.92	564.6
187	15.356	2.0460	2131.0	.9323-01	.1139	.1139	.9000	.2255-02	.2755-02	1.561	11.87	564.4
187	15.356	2.2500	2132.0	.1006	.1230	.1230	.9000	.2432-02	.2973-02	1.678	13.20	566.5
187	15.356	2.4530	2133.0	.1094	.1341	.1341	.9000	.2646-02	.3242-02	1.808	15.27	573.2
187	15.356	2.6630	2134.0	.1019	.1250	.1250	.9000	.2463-02	.3022-02	1.674	15.95	577.1
187	15.356	2.8160	2135.0	.8404-01	.1026	.1026	.9000	.2032-02	.2481-02	1.412	11.54	561.9

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF17)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
178	2.003	7.980	39.97	-4.003	435.3	1302.	94.76	.4532-01	2.020	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
178	.3505-01	.2868-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NU	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
178	13.107	1.9620	2115.0	.1039	.1272	.1272	.9000	.3642-02	.4460-02	2.585	23.42	592.0
178	13.107	2.1420	2116.0	.1084	.1334	.1334	.9000	.3800-02	.4675-02	2.644	28.56	605.9
178	13.107	2.3220	2117.0	.9550-01	.1174	.1174	.9000	.3348-02	.4115-02	2.337	29.72	603.7
178	13.107	2.4480	2118.0	.7598-01	.9239-01	.9239-01	.9000	.2664-02	.3239-02	1.952	17.18	568.7
178	13.170	.78000	2107.0	.7420-01	.9061-01	.9061-01	.9000	.2501-02	.3176-02	1.869	17.02	582.9
178	13.207	1.7820	2114.0	.1091	.1333	.1333	.9000	.3826-02	.4673-02	2.747	19.35	583.6
178	15.356	1.8370	2130.0	.6556-01	.8012-01	.8012-01	.9000	.2298-02	.2809-02	1.645	15.61	585.8
178	15.356	2.0460	2131.0	.8918-01	.1089	.1089	.9000	.3126-02	.3818-02	2.242	16.88	584.3
178	15.356	2.2500	2132.0	.9737-01	.1191	.1191	.9000	.3413-02	.4174-02	2.438	18.98	587.3
178	15.356	2.4530	2133.0	.1051	.1289	.1289	.9000	.3685-02	.4519-02	2.508	21.68	595.6
178	15.356	2.6630	2134.0	.9947-01	.1222	.1222	.9000	.3487-02	.4283-02	2.440	22.97	601.8
178	15.356	2.8160	2135.0	.8251-01	.1007	.1007	.9000	.2892-02	.3530-02	2.085	16.89	580.8

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF17)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -4.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
96	2.988	7.990	40.00	-4.027	670.3	1327.	96.36	.6922-01	3.093	3845.	.1939-02	.7754-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
96	.4352-01	.2345-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
96	13.107	1.9620	2115.0	.1005	.1236	.1236	.9000	.4373-02	.5378-02	3.104	27.79	616.9
96	13.107	2.1420	2116.0	.1028	.1272	.1272	.9000	.4476-02	.5537-02	3.100	33.03	634.0
96	13.107	2.3220	2117.0	.9151-01	.1130	.1130	.9000	.3982-02	.4918-02	2.775	34.88	629.5
96	13.107	2.4480	2118.0	.7499-01	.9136-01	.9136-01	.9000	.3264-02	.3976-02	2.417	21.00	586.1
96	13.170	.78000	2107.0	.7302-01	.8945-01	.8945-01	.9000	.3178-02	.3893-02	2.295	20.67	604.4
96	13.207	1.7820	2114.0	.1111	.1361	.1361	.9000	.4834-02	.5924-02	3.483	24.27	606.0
96	15.356	1.8370	2130.0	.6368-01	.7805-01	.7805-01	.9000	.2771-02	.3397-02	1.997	18.76	606.0
96	15.356	2.0460	2131.0	.8838-01	.1083	.1083	.9000	.3847-02	.4714-02	2.772	20.65	606.0
96	15.356	2.2500	2132.0	.9447-01	.1159	.1159	.9000	.4111-02	.5046-02	2.945	22.67	610.3
96	15.356	2.4530	2133.0	.1013	.1248	.1248	.9000	.4410-02	.5433-02	3.106	25.61	622.2
96	15.356	2.6630	2134.0	.9448-01	.1166	.1166	.9000	.4112-02	.5076-02	2.873	26.70	628.0
96	15.356	2.8160	2135.0	.8057-01	.9852-01	.9852-01	.9000	.3006-02	.4288-02	2.553	20.50	598.5

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF18)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
197	.4998	7.900	39.96	-1.991	100.2	1257.	93.21	.1114-01	.4867	3739.	.3226-03	.7501-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
197	.1710-01	.5716-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
197	13.107	1.9620	2115.0	.1043	.1271	.1271	.9000	.1783-02	.2173-02	1.250	11.53	555.8
197	13.107	2.1420	2116.0	.1085	.1325	.1325	.9000	.1856-02	.2266-02	1.289	14.21	562.8
197	13.107	2.3220	2117.0	.9332-01	.1139	.1139	.9000	.1596-02	.1948-02	1.110	14.43	560.9
197	13.107	2.4480	2118.0	.7128-01	.8658-01	.8658-01	.9000	.1219-02	.1481-02	.8667	7.717	545.7
197	13.170	.78000	2107.0	.7695-01	.9366-01	.9366-01	.9000	.1316-02	.1602-02	.9265	8.563	552.6
197	13.207	1.7820	2114.0	.1085	.1321	.1321	.9000	.1856-02	.2259-02	1.308	9.359	552.2
197	15.356	1.8370	2130.0	.6901-01	.8404-01	.8404-01	.9000	.1180-02	.1437-02	.8296	7.997	553.7
197	15.356	2.0460	2131.0	.9239-01	.1124	.1124	.9000	.1580-02	.1923-02	1.113	8.516	552.2
197	15.356	2.2500	2132.0	.9912-01	.1207	.1207	.9000	.1695-02	.2064-02	1.192	9.444	553.2
197	15.356	2.4530	2133.0	.1072	.1307	.1307	.9000	.1834-02	.2235-02	1.282	10.91	557.4
197	15.356	2.6630	2134.0	.9878-01	.1205	.1205	.9000	.1689-02	.2061-02	1.177	11.31	560.0
197	15.356	2.8160	2135.0	.7799-01	.9490-01	.9490-01	.9000	.1334-02	.1623-02	.9409	7.735	551.3

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF18)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
184	.9995	7.940	39.97	-2.001	204.9	1264.	92.86	.2204-01	.9726	3751.	.6406-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
184	.2420-01	.4059-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
184	13.107	1.9620	2115.0	.1026	.1253	.1253	.9000	.2483-02	.3032-02	1.731	15.89	566.3
184	13.107	2.1420	2116.0	.1068	.1308	.1308	.9000	.2585-02	.3165-02	1.783	19.57	573.8
184	13.107	2.3220	2117.0	.9298-01	.1137	.1137	.9000	.2250-02	.2752-02	1.558	20.14	571.3
184	13.107	2.4480	2118.0	.7089-01	.8616-01	.8616-01	.9000	.1715-02	.2085-02	1.223	10.86	550.8
184	13.170	.78000	2107.0	.7569-01	.9231-01	.9231-01	.9000	.1832-02	.2234-02	1.285	11.82	561.9
184	13.207	1.7820	2114.0	.1117	.1362	.1362	.9000	.2702-02	.3295-02	1.897	13.52	561.4
184	15.356	1.8370	2130.0	.6663-01	.8128-01	.8128-01	.9000	.1612-02	.1967-02	1.130	10.85	562.6
184	15.356	2.0460	2131.0	.9102-01	.1110	.1110	.9000	.2203-02	.2686-02	1.546	11.77	562.0
184	15.356	2.2500	2132.0	.9673-01	.1180	.1180	.9000	.2341-02	.2856-02	1.639	12.91	563.4
184	15.356	2.4530	2133.0	.1043	.1275	.1275	.9000	.2524-02	.3085-02	1.753	14.84	569.0
184	15.356	2.6630	2134.0	.9789-01	.1198	.1198	.9000	.2369-02	.2899-02	1.638	15.64	572.3
184	15.356	2.8160	2135.0	.7747-01	.9439-01	.9439-01	.9000	.1875-02	.2284-02	1.322	10.83	558.6

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OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF18)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
175	1.988	7.980	39.99	-2.005	434.9	1308.	95.20	.4528-01	2.018	3817.	.1284-02	.7661-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
175	.3507-01	.2878-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
175	13.107	1.9620	2115.0	.9903-01	.1210	.1210	.9000	.3473-02	.4245-02	2.497	22.66	588.7
175	13.107	2.1420	2116.0	.1026	.1259	.1259	.9000	.3599-02	.4416-02	2.542	27.52	601.2
175	13.107	2.3220	2117.0	.9011-01	.1105	.1105	.9000	.3160-02	.3873-02	2.243	28.61	597.9
175	13.107	2.4480	2118.0	.7041-01	.8547-01	.8547-01	.9000	.2469-02	.2997-02	1.832	16.15	565.6
175	13.170	.78000	2107.0	.7312-01	.8918-01	.8918-01	.9000	.2564-02	.3127-02	1.862	16.96	581.6
175	13.207	1.7820	2114.0	.1049	.1280	.1280	.9000	.3579-02	.4487-02	2.672	18.85	581.4
175	15.356	1.8370	2130.0	.6361-01	.7763-01	.7763-01	.9000	.2230-02	.2722-02	1.615	15.33	583.8
175	15.356	2.0460	2131.0	.8637-01	.1054	.1054	.9000	.3029-02	.3694-02	2.198	16.56	582.1
175	15.356	2.2500	2132.0	.9297-01	.1135	.1135	.9000	.3260-02	.3980-02	2.358	18.38	584.5
175	15.356	2.4530	2133.0	.9963-01	.1219	.1219	.9000	.3494-02	.4276-02	2.498	20.89	592.7
175	15.356	2.6630	2134.0	.9320-01	.1142	.1142	.9000	.3268-02	.4005-02	2.323	21.91	597.0
175	15.356	2.8160	2135.0	.7663-01	.9332-01	.9332-01	.9000	.2687-02	.3272-02	1.965	15.95	576.4

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF18)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -2.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
93	2.993	7.990	40.02	-2.035	672.1	1328.	96.43	.6941-01	3.102	3846.	.1943-02	.7760-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
93	.4359-01	.2343-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTNDT DEG. R /SEC	TW DEG. R
93	13.107	1.9620	2115.0	.9638-01	.1179	.1179	.9000	.4201-02	.5140-02	3.052	27.53	601.2
93	13.107	2.1420	2116.0	.9865-01	.1213	.1213	.9000	.4300-02	.5288-02	3.055	32.82	617.1
93	13.107	2.3220	2117.0	.8669-01	.1065	.1065	.9000	.3779-02	.4643-02	2.694	34.09	614.7
93	13.107	2.4480	2118.0	.6964-01	.8449-01	.8449-01	.9000	.3035-02	.3683-02	2.293	20.14	572.4
93	13.170	.78000	2107.0	.7175-01	.8749-01	.8749-01	.9000	.3127-02	.3813-02	2.307	20.93	589.9
93	13.207	1.7820	2114.0	.1063	.1297	.1297	.9000	.4634-02	.5653-02	3.415	23.97	590.9
93	15.356	1.8370	2130.0	.6183-01	.7544-01	.7544-01	.9000	.2695-02	.3288-02	1.982	18.75	592.0
93	15.356	2.0460	2131.0	.8527-01	.1040	.1040	.9000	.3717-02	.4535-02	2.735	20.52	591.8
93	15.356	2.2500	2132.0	.9102-01	.1112	.1112	.9000	.3967-02	.4846-02	2.905	22.53	595.5
93	15.356	2.4530	2133.0	.9693-01	.1188	.1188	.9000	.4225-02	.5178-02	3.047	25.32	606.3
93	15.356	2.6630	2134.0	.9010-01	.1106	.1106	.9000	.3927-02	.4821-02	2.812	26.34	611.5
93	15.356	2.8150	2135.0	.7420-01	.9032-01	.9032-01	.9000	.3234-02	.3937-02	2.407	19.47	583.5

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF21)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
194	.5043	7.900	39.98	-1.003	100.4	1251.	92.77	.1116-01	.4876	3730.	.3247-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
194	.1710-01	.5695-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
194	13.107	1.9620	2115.0	.1027	.1251	.1251	.9000	.1756-02	.2140-02	1.225	11.32	553.2
194	13.107	2.1420	2116.0	.1070	.1306	.1306	.9000	.1830-02	.2234-02	1.265	13.98	559.5
194	13.107	2.3220	2117.0	.9189-01	.1121	.1121	.9000	.1572-02	.1917-02	1.090	14.18	557.4
194	13.107	2.4480	2118.0	.6858-01	.8331-01	.8331-01	.9000	.1173-02	.1425-02	.8295	7.394	543.5
194	13.170	.78000	2107.0	.7740-01	.9423-01	.9423-01	.9000	.1324-02	.1612-02	.9268	8.575	550.5
194	13.207	1.7820	2114.0	.1078	.1313	.1313	.9000	.1844-02	.2245-02	1.292	9.259	550.0
194	15.356	1.8370	2130.0	.6841-01	.8332-01	.8332-01	.9000	.1170-02	.1425-02	.8176	7.889	551.8
194	15.356	2.0460	2131.0	.9208-01	.1121	.1121	.9000	.1575-02	.1917-02	1.103	8.449	550.2
194	15.356	2.2500	2132.0	.9796-01	.1193	.1193	.9000	.1675-02	.2040-02	1.172	9.294	551.0
194	15.356	2.4530	2133.0	.1053	.1284	.1284	.9000	.1801-02	.2196-02	1.254	10.68	554.8
194	15.356	2.6630	2134.0	.9847-01	.1201	.1201	.9000	.1684-02	.2055-02	1.168	11.24	557.1
194	15.356	2.8160	2135.0	.7497-01	.9123-01	.9123-01	.9000	.1282-02	.1560-02	.8996	7.404	549.1

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

PAGE 758

OH84B 60-0 LOWER MID FUSELAGE

(R4UF21)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	T0 DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
181	.9960	7.940	39.97	-1.003	203.7	1262.	92.71	.2191-01	.9670	3748.	.6379-03	.7460-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
181	.2412-01	.4067-01

TEST DATA

RUN NUMBER	X0 MS	Y0 MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(T0) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
181	13.107	1.9620	2115.0	.9966-01	.1218	.1218	.9000	.2404-02	.2937-02	1.671	15.34	566.5
181	13.107	2.1420	2116.0	.1035	.1267	.1267	.9000	.2496-02	.3056-02	1.717	18.85	573.6
181	13.107	2.3220	2117.0	.8959-01	.1096	.1096	.9000	.2161-02	.2644-02	1.492	19.29	571.2
181	13.107	2.4480	2118.0	.6694-01	.8141-01	.8141-01	.9000	.1615-02	.1964-02	1.146	10.17	552.0
181	13.170	.78000	2107.0	.7559-01	.9223-01	.9223-01	.9000	.1823-02	.2225-02	1.275	11.73	562.4
181	13.207	1.7820	2114.0	.1045	.1275	.1275	.9000	.2521-02	.3075-02	1.764	12.56	562.0
181	15.356	1.8370	2130.0	.6569-01	.8016-01	.8016-01	.9000	.1585-02	.1934-02	1.107	10.62	562.8
181	15.356	2.0460	2131.0	.8889-01	.1085	.1085	.9000	.2144-02	.2616-02	1.500	11.42	562.2
181	15.356	2.2500	2132.0	.9444-01	.1153	.1153	.9000	.2278-02	.2781-02	1.590	12.53	563.5
181	15.356	2.4530	2133.0	.1013	.1239	.1239	.9000	.2444-02	.2988-02	1.693	14.33	569.7
181	15.356	2.6630	2134.0	.9454-01	.1157	.1157	.9000	.2280-02	.2791-02	1.573	15.03	571.8
181	15.356	2.8160	2135.0	.7412-01	.9034-01	.9034-01	.9000	.1788-02	.2179-02	1.255	10.29	558.9

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

PAGE 759

OH84B 60-0 LOWER MID FUSELAGE

(R4UF21)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
169	2.008	7.980	40.02	-1.013	435.3	1300.	94.62	.4532-01	2.020	3805.	.1293-02	.7614-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
169	.3505-01	.2866-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
169	13.107	1.9620	2115.0	.9492-01	.1165	.1165	.9000	.3326-02	.4084-02	2.331	21.06	598.9
169	13.107	2.1420	2116.0	.9663-01	.1191	.1191	.9000	.3386-02	.4175-02	2.331	25.11	611.4
169	13.107	2.3220	2117.0	.8306-01	.1023	.1023	.9000	.2911-02	.3583-02	2.016	25.60	607.2
169	13.107	2.4480	2118.0	.6594-01	.8030-01	.8030-01	.9000	.2311-02	.2814-02	1.679	14.75	573.1
169	13.170	.78000	2107.0	.7120-01	.8729-01	.8729-01	.9000	.2495-02	.3059-02	1.760	15.93	594.4
169	13.207	1.7820	2114.0	.1050	.1287	.1287	.9000	.3681-02	.4509-02	2.607	18.30	591.4
169	15.356	1.8370	2130.0	.6038-01	.7404-01	.7404-01	.9000	.2116-02	.2595-02	1.491	14.08	595.1
169	15.356	2.0460	2131.0	.8343-01	.1023	.1023	.9000	.2924-02	.3585-02	2.062	15.45	594.5
169	15.356	2.2500	2132.0	.8854-01	.1086	.1086	.9000	.3103-02	.3806-02	2.184	16.94	595.8
169	15.356	2.4530	2133.0	.9325-01	.1147	.1147	.9000	.3268-02	.4018-02	2.275	18.92	603.6
169	15.356	2.6630	2134.0	.8551-01	.1053	.1053	.9000	.2997-02	.3689-02	2.076	19.49	606.9
169	15.356	2.8160	2135.0	.7001-01	.8555-01	.8555-01	.9000	.2453-02	.2998-02	1.755	14.19	584.5

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

PAGE 760

OH84B 60-0 LOWER MID FUSELAGE

(R4UF21)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = -1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
88	3.008	7.990	40.09	-1.038	670.2	1321.	95.92	.6921-01	3.093	3836.	.1947-02	.7719-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
88	.4348-01	.2339-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
88	13.107	1.9620	2115.0	.9578-01	.1177	.1177	.9000	.4165-02	.5117-02	2.957	26.55	610.8
88	13.107	2.1420	2116.0	.9806-01	.1210	.1210	.9000	.4264-02	.5263-02	2.969	31.76	624.7
88	13.107	2.3220	2117.0	.8620-01	.1062	.1062	.9000	.3748-02	.4620-02	2.624	33.11	620.6
88	13.107	2.4480	2118.0	.6801-01	.8276-01	.8276-01	.9000	.2958-02	.3599-02	2.192	19.19	579.5
88	13.170	.78000	2107.0	.7168-01	.8789-01	.8789-01	.9000	.3117-02	.3822-02	2.231	20.09	604.8
88	13.207	1.7820	2114.0	.1067	.1307	.1307	.9000	.4640-02	.5685-02	3.333	23.26	602.4
88	15.356	1.8370	2130.0	.6114-01	.7503-01	.7503-01	.9000	.2659-02	.3263-02	1.896	17.80	607.4
88	15.356	2.0460	2131.0	.8453-01	.1037	.1037	.9000	.3676-02	.4509-02	2.626	19.56	606.3
88	15.356	2.2500	2132.0	.8981-01	.1103	.1103	.9000	.3905-02	.4795-02	2.781	21.43	608.6
88	15.356	2.4530	2133.0	.9492-01	.1169	.1169	.9000	.4127-02	.5082-02	2.902	23.97	617.6
88	15.356	2.6630	2134.0	.8848-01	.1091	.1091	.9000	.3847-02	.4743-02	2.691	25.08	621.3
88	15.356	2.8160	2135.0	.7313-01	.8937-01	.8937-01	.9000	.3180-02	.3886-02	2.312	18.61	593.8

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF22)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
18	.5054	7.900	40.00	-.3140-02	100.3	1248.	92.54	.1114-01	.4869	3726.	.3250-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
18	.1708-01	.5691-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
18	13.107	1.9620	2115.0	.1014	.1237	.1237	.9000	.1732-02	.2113-02	1.197	11.04	556.4
18	13.107	2.1420	2116.0	.1064	.1300	.1300	.9000	.1817-02	.2221-02	1.248	13.78	561.1
18	13.107	2.3220	2117.0	.9184-01	.1122	.1122	.9000	.1569-02	.1916-02	1.080	14.05	559.0
18	13.107	2.4480	2118.0	.6709-01	.8160-01	.8160-01	.9000	.1146-02	.1394-02	.8037	7.154	546.3
18	13.170	.78000	2107.0	.7728-01	.9425-01	.9425-01	.9000	.1320-02	.1610-02	.9149	8.447	554.7
18	13.207	1.7820	2114.0	.1103	.1344	.1344	.9000	.1884-02	.2297-02	1.307	9.345	553.9
18	15.356	1.8370	2130.0	.6786-01	.8280-01	.8280-01	.9000	.1159-02	.1414-02	.8020	7.722	555.9
18	15.356	2.0460	2131.0	.9117-01	.1112	.1112	.9000	.1558-02	.1899-02	1.081	8.260	553.9
18	15.356	2.2500	2132.0	.9697-01	.1182	.1182	.9000	.1657-02	.2020-02	1.149	9.092	554.2
18	15.356	2.4530	2133.0	.1039	.1268	.1268	.9000	.1775-02	.2166-02	1.225	10.43	557.4
18	15.356	2.6630	2134.0	.9813-01	.1198	.1198	.9000	.1676-02	.2047-02	1.154	11.10	559.2
18	15.356	2.8160	2135.0	.7370-01	.8981-01	.8981-01	.9000	.1259-02	.1534-02	.8759	7.198	552.0

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

PAGE 762

OH84B 60-0 LOWER MID FUSELAGE

(R4UF22)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	P0 PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
34	1.029	7.940	39.99	.1042-02	208.4	1254.	92.12	.2242-01	.9894	3736.	.6568-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
34	.2437-01	.4005-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
34	13.107	1.9620	2115.0	.9798-01	.1199	.1199	.9000	.2388-02	.2921-02	1.640	15.05	566.9
34	13.107	2.1420	2116.0	.1010	.1238	.1238	.9000	.2461-02	.3017-02	1.675	18.38	573.2
34	13.107	2.3220	2117.0	.8744-01	.1071	.1071	.9000	.2131-02	.2611-02	1.455	18.81	571.1
34	13.107	2.4480	2118.0	.6500-01	.7915-01	.7915-01	.9000	.1584-02	.1929-02	1.111	9.865	552.1
34	13.170	.78000	2107.0	.7494-01	.9155-01	.9155-01	.9000	.1826-02	.2231-02	1.262	11.60	562.9
34	13.207	1.7820	2114.0	.1072	.1309	.1309	.9000	.2612-02	.3191-02	1.805	12.85	562.5
34	15.356	1.8370	2130.0	.6483-01	.7921-01	.7921-01	.9000	.1580-02	.1930-02	1.091	10.47	562.9
34	15.356	2.0460	2131.0	.8787-01	.1073	.1073	.9000	.2142-02	.2616-02	1.481	11.27	562.1
34	15.356	2.2500	2132.0	.9281-01	.1134	.1134	.9000	.2262-02	.2764-02	1.562	12.31	563.2
34	15.356	2.4530	2133.0	.9924-01	.1215	.1215	.9000	.2419-02	.2960-02	1.658	14.04	569.1
34	15.356	2.6630	2134.0	.9197-01	.1127	.1127	.9000	.2242-02	.2746-02	1.531	14.63	570.8
34	15.356	2.8160	2135.0	.7318-01	.8927-01	.8927-01	.9000	.1784-02	.2176-02	1.241	10.16	558.1

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

PAGE 763

OH84B 60-0 LOWER MID FUSELAGE

(R4UF22)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
75	2.004	7.980	40.04	-1.1423-06	434.9	1301.	94.69	.4527-01	2.018	3807.	.1291-02	.7620-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
75	.3503-01	.2868-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWOT DEG. R /SEC	TW DEG. R
75	13.107	1.9620	2115.0	.9590-01	.1174	.1174	.9000	.3360-02	.4114-02	2.383	21.80	591.4
75	13.107	2.1420	2116.0	.9805-01	.1205	.1205	.9000	.3435-02	.4221-02	2.398	25.95	602.4
75	13.107	2.3220	2117.0	.8529-01	.1047	.1047	.9000	.2988-02	.3667-02	2.097	26.75	598.7
75	13.107	2.4480	2118.0	.6596-01	.8018-01	.8018-01	.9000	.2311-02	.2809-02	1.694	14.92	567.6
75	13.170	.78000	2107.0	.7248-01	.8860-01	.8860-01	.9000	.2539-02	.3104-02	1.815	16.49	586.0
75	13.207	1.7820	2114.0	.1060	.1295	.1295	.9000	.3713-02	.4538-02	2.658	18.72	584.9
75	15.356	1.8370	2130.0	.6273-01	.7675-01	.7675-01	.9000	.2198-02	.2689-02	1.565	14.82	588.7
75	15.356	2.0460	2131.0	.8570-01	.1048	.1048	.9000	.3002-02	.3672-02	2.141	16.09	587.7
75	15.356	2.2500	2132.0	.9014-01	.1103	.1103	.9000	.3158-02	.3863-02	2.249	17.50	588.4
75	15.356	2.4530	2133.0	.9599-01	.1177	.1177	.9000	.3363-02	.4123-02	2.371	19.80	595.5
75	15.356	2.6630	2134.0	.8887-01	.1091	.1091	.9000	.3113-02	.3821-02	2.185	20.59	598.9
75	15.356	2.8160	2135.0	.7203-01	.8787-01	.8787-01	.9000	.2523-02	.3078-02	1.821	14.77	578.9

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

PAGE 764

OH84B 60-0 LOWER MID FUSELAGE

(R4UF22)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BOFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
84	3.017	7.990	40.07	.2139-02	669.8	1318.	95.71	.6917-01	3.091	3832.	.1951-02	.7701-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
84	.4345-01	.2336-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TOT) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
84	13.107	1.9620	2115.0	.9369-01	.1150	.1150	.9000	.4071-02	.4996-02	2.897	26.08	606.0
84	13.107	2.1420	2116.0	.9531-01	.1175	.1175	.9000	.4142-02	.5106-02	2.890	31.01	619.8
84	13.107	2.3220	2117.0	.8265-01	.1018	.1018	.9000	.3591-02	.4422-02	2.520	31.87	615.9
84	13.107	2.4480	2118.0	.6501-01	.7905-01	.7905-01	.9000	.2825-02	.3435-02	2.096	18.38	575.8
84	13.170	.78000	2107.0	.7131-01	.8733-01	.8733-01	.9000	.3098-02	.3795-02	2.225	20.09	599.6
84	13.207	1.7820	2114.0	.1042	.1275	.1275	.9000	.4526-02	.5540-02	3.259	22.81	597.6
84	15.356	1.8370	2130.0	.6053-01	.7419-01	.7419-01	.9000	.2630-02	.3224-02	1.882	17.71	602.1
84	15.356	2.0460	2131.0	.8363-01	.1025	.1025	.9000	.3634-02	.4453-02	2.604	19.45	601.0
84	15.356	2.2500	2132.0	.8838-01	.1084	.1084	.9000	.3840-02	.4709-02	2.743	21.19	603.3
84	15.356	2.4530	2133.0	.9256-01	.1138	.1138	.9000	.4022-02	.4946-02	2.838	23.50	612.2
84	15.356	2.6630	2134.0	.8526-01	.1050	.1050	.9000	.3705-02	.4562-02	2.600	24.30	616.1
84	15.356	2.8160	2135.0	.6911-01	.8436-01	.8436-01	.9000	.3003-02	.3666-02	2.188	17.65	589.1

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

PAGE 765

OH84B 60-0 LOWER MID FUSELAGE

(R4UF22)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
147	X10 6 3.672	8.000	40.10	-.2161-02	850.8	1353.	98.02	.8715-01	3.904	3883.	.2400-02	.7888-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
147	.4906-01	.2112-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
147	13.107	1.9620	2115.0	.9203-01	.1129	.1129	.9000	.4515-02	.5538-02	3.307	29.55	620.4
147	13.107	2.1420	2116.0	.9318-01	.1148	.1148	.9000	.4571-02	.5630-02	3.289	35.06	633.1
147	13.107	2.3220	2117.0	.8104-01	.9962-01	.9962-01	.9000	.3976-02	.4887-02	2.883	36.26	627.4
147	13.107	2.4480	2118.0	.6417-01	.7784-01	.7784-01	.9000	.3148-02	.3819-02	2.424	21.19	582.6
147	13.170	.78000	2107.0	.7028-01	.8608-01	.8608-01	.9000	.3448-02	.4223-02	2.541	22.76	615.8
147	13.207	1.7820	2114.0	.1012	.1237	.1237	.9000	.4963-02	.6070-02	3.679	25.57	611.3
147	15.356	1.8370	2130.0	.6009-01	.7363-01	.7363-01	.9000	.2948-02	.3612-02	2.167	20.24	617.5
147	15.356	2.0460	2131.0	.8296-01	.1016	.1016	.9000	.4070-02	.4985-02	2.999	22.23	615.8
147	15.356	2.2500	2132.0	.8744-01	.1072	.1072	.9000	.4290-02	.5258-02	3.152	24.18	617.9
147	15.356	2.4530	2133.0	.9132-01	.1122	.1122	.9000	.4480-02	.5507-02	3.251	26.73	627.0
147	15.356	2.6630	2134.0	.8378-01	.1031	.1031	.9000	.4110-02	.5058-02	2.968	27.55	630.5
147	15.356	2.8160	2135.0	.6842-01	.8338-01	.8338-01	.9000	.3357-02	.4090-02	2.531	20.32	598.7

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF24)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = .0000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
87	3.025	7.990	40.26	.9099-02	670.1	1316.	95.56	.6920-01	3.092	3829.	.1955-02	.7690-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
87	.4345-01	.2333-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTNDT DEG. R /SEC	TW DEG. R
87	13.107	1.9620	2115.0	.9342-01	.1148	.1148	.9000	.4059-02	.4988-02	2.868	25.77	609.2
87	13.107	2.1420	2116.0	.9471-01	.1169	.1169	.9000	.4115-02	.5080-02	2.851	30.54	622.9
87	13.107	2.3220	2117.0	.8224-01	.1014	.1014	.9000	.3573-02	.4405-02	2.490	31.44	618.9
87	13.107	2.4480	2118.0	.6480-01	.7888-01	.7888-01	.9000	.2816-02	.3427-02	2.076	18.18	578.5
87	13.170	.78000	2107.0	.7140-01	.8756-01	.8756-01	.9000	.3103-02	.3805-02	2.212	19.94	602.7
87	13.207	1.7820	2114.0	.1022	.1253	.1253	.9000	.4442-02	.5444-02	3.175	22.18	600.8
87	15.356	1.8370	2130.0	.6091-01	.7474-01	.7474-01	.9000	.2647-02	.3248-02	1.881	17.68	604.9
87	15.356	2.0460	2131.0	.8384-01	.1029	.1029	.9000	.3643-02	.4469-02	2.593	19.34	603.8
87	15.356	2.2500	2132.0	.8808-01	.1081	.1081	.9000	.3827-02	.4699-02	2.715	20.94	606.3
87	15.356	2.4530	2133.0	.9251-01	.1139	.1139	.9000	.4020-02	.4949-02	2.817	23.30	615.0
87	15.356	2.6630	2134.0	.8548-01	.1054	.1054	.9000	.3714-02	.4578-02	2.589	24.17	618.6
87	15.356	2.8160	2135.0	.6846-01	.8367-01	.8367-01	.9000	.2975-02	.3636-02	2.154	17.35	591.7

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF25)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
22	.5090	7.900	40.03	1.039	101.5	1252.	92.84	.1128-01	.4927	3732.	.3279-03	.7471-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
22	.1719-01	.5668-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
22	13.107	1.9620	2115.0	.9933-01	.1211	.1211	.9000	.1708-02	.2082-02	1.191	10.99	554.6
22	13.107	2.1420	2116.0	.1026	.1252	.1252	.9000	.1764-02	.2153-02	1.221	13.50	559.1
22	13.107	2.3220	2117.0	.8831-01	.1077	.1077	.9000	.1518-02	.1852-02	1.055	13.73	557.0
22	13.107	2.4480	2118.0	.6362-01	.7730-01	.7730-01	.9000	.1094-02	.1329-02	.7736	6.892	544.5
22	13.170	.78000	2107.0	.7766-01	.9463-01	.9463-01	.9000	.1335-02	.1627-02	.9322	8.611	553.6
22	13.207	1.7820	2114.0	.1070	.1303	.1303	.9000	.1839-02	.2240-02	1.286	9.207	552.2
22	15.356	1.8370	2130.0	.6763-01	.8242-01	.8242-01	.9000	.1163-02	.1417-02	.8109	7.814	554.3
22	15.356	2.0460	2131.0	.9030-01	.1100	.1100	.9000	.1553-02	.1891-02	1.086	8.306	552.4
22	15.356	2.2500	2132.0	.9511-01	.1159	.1159	.9000	.1635-02	.1992-02	1.143	9.053	552.8
22	15.356	2.4530	2133.0	.1011	.1232	.1232	.9000	.1738-02	.2119-02	1.209	10.30	555.9
22	15.356	2.6630	2134.0	.9355-01	.1141	.1141	.9000	.1609-02	.1963-02	1.116	10.74	557.8
22	15.356	2.8160	2135.0	.7198-01	.8762-01	.8762-01	.9000	.1238-02	.1507-02	.8679	7.139	550.4

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF25)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
37	1.021	7.940	40.06	1.019	207.3	1256.	92.27	.2230-01	.9842	3739.	.6523-03	.7425-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
37	.2432-01	.4020-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	DDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
37	13.107	1.9620	2115.0	.9660-01	.1181	.1181	.9000	.2349-02	.2872-02	1.619	14.87	566.2
37	13.107	2.1420	2116.0	.9967-01	.1221	.1221	.9000	.2424-02	.2968-02	1.658	18.22	571.4
37	13.107	2.3220	2117.0	.8563-01	.1048	.1048	.9000	.2082-02	.2548-02	1.431	18.52	568.5
37	13.107	2.4480	2118.0	.6266-01	.7624-01	.7624-01	.9000	.1524-02	.1854-02	1.074	9.542	550.5
37	13.170	.78000	2107.0	.7485-01	.9148-01	.9148-01	.9000	.1820-02	.2224-02	1.258	11.55	564.7
37	13.207	1.7820	2114.0	.1061	.1295	.1295	.9000	.2579-02	.3150-02	1.788	12.73	562.5
37	15.356	1.8370	2130.0	.6509-01	.7952-01	.7952-01	.9000	.1583-02	.1933-02	1.096	10.51	563.4
37	15.356	2.0460	2131.0	.8755-01	.1069	.1069	.9000	.2129-02	.2599-02	1.476	11.24	562.2
37	15.356	2.2500	2132.0	.9195-01	.1123	.1123	.9000	.2236-02	.2731-02	1.549	12.21	562.9
37	15.356	2.4530	2133.0	.9754-01	.1193	.1193	.9000	.2372-02	.2901-02	1.633	13.83	567.1
37	15.356	2.6630	2134.0	.9027-01	.1105	.1105	.9000	.2195-02	.2686-02	1.506	14.40	569.4
37	15.356	2.8160	2135.0	.7068-01	.8618-01	.8618-01	.9000	.1719-02	.2095-02	1.200	9.837	557.3

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(RWUF25)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 1.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6 2.004	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
72		7.980	40.09	1.028	435.4	1302.	94.76	.4533-01	2.021	3808.	.1291-02	.7626-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
72	.3506-01	.2868-01

TEST DATA

RUN NUMBER	XO MS	YO MS	I/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TH DEG. R
72	13.107	1.9620	2115.0	.9430-01	.1153	.1153	.9000	.3306-02	.4042-02	2.362	21.46	587.0
72	13.107	2.1420	2116.0	.9719-01	.1192	.1192	.9000	.3407-02	.4179-02	2.402	26.06	596.8
72	13.107	2.3220	2117.0	.8411-01	.1030	.1030	.9000	.2949-02	.3612-02	2.090	26.73	592.9
72	13.107	2.4480	2118.0	.6296-01	.7647-01	.7647-01	.9000	.2207-02	.2681-02	1.627	14.35	564.6
72	13.170	.78000	2107.0	.7260-01	.8871-01	.8871-01	.9000	.2545-02	.3110-02	1.825	16.60	584.8
72	13.207	1.7820	2114.0	.1018	.1243	.1243	.9000	.3570-02	.4358-02	2.571	18.13	581.5
72	15.356	1.8370	2130.0	.6299-01	.7698-01	.7698-01	.9000	.2208-02	.2699-02	1.582	15.01	585.3
72	15.356	2.0460	2131.0	.8544-01	.1044	.1044	.9000	.2995-02	.3659-02	2.150	16.19	583.9
72	15.356	2.2500	2132.0	.8981-01	.1097	.1097	.9000	.3148-02	.3846-02	2.259	17.62	584.1
72	15.356	2.4530	2133.0	.9500-01	.1163	.1163	.9000	.3331-02	.4077-02	2.369	19.83	590.4
72	15.356	2.6630	2134.0	.8801-01	.1078	.1078	.9000	.3085-02	.3781-02	2.185	20.64	593.7
72	15.356	2.8160	2135.0	.7031-01	.8566-01	.8566-01	.9000	.2465-02	.3003-02	1.790	14.54	575.5

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF26)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BDFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
25	.5071	7.900	39.99	2.019	101.0	1251.	92.77	.1122-01	.4903	3730.	.3265-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
25	.1715-01	.5679-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
25	13.107	1.9620	2115.0	.9677-01	.1179	.1179	.9000	.1660-02	.2023-02	1.156	10.68	554.1
25	13.107	2.1420	2116.0	.9977-01	.1218	.1218	.9000	.1711-02	.2088-02	1.184	13.10	558.4
25	13.107	2.3220	2117.0	.8423-01	.1027	.1027	.9000	.1445-02	.1762-02	1.003	13.07	556.2
25	13.107	2.4480	2118.0	.6062-01	.7366-01	.7366-01	.9000	.1040-02	.1263-02	.7347	6.547	544.0
25	13.170	.78000	2107.0	.7592-01	.9253-01	.9253-01	.9000	.1302-02	.1587-02	.9075	8.383	553.7
25	13.207	1.7820	2114.0	.1065	.1297	.1297	.9000	.1827-02	.2225-02	1.277	9.140	551.7
25	15.356	1.8370	2130.0	.6640-01	.8091-01	.8091-01	.9000	.1139-02	.1388-02	.7939	7.653	553.5
25	15.356	2.0460	2131.0	.8854-01	.1078	.1078	.9000	.1519-02	.1849-02	1.062	8.127	551.4
25	15.356	2.2500	2132.0	.9273-01	.1129	.1129	.9000	.1590-02	.1937-02	1.112	8.812	551.8
25	15.356	2.4630	2133.0	.9886-01	.1205	.1205	.9000	.1695-02	.2067-02	1.180	10.06	554.5
25	15.356	2.6630	2134.0	.9134-01	.1114	.1114	.9000	.1567-02	.1911-02	1.088	10.47	556.2
25	15.356	2.8160	2135.0	.6858-01	.8346-01	.8346-01	.9000	.1176-02	.1431-02	.8251	6.790	549.1

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF26)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
40	1.021	7.940	40.02	2.016	206.8	1254.	92.12	.2225-01	.9818	3736.	.6518-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
40	.2428-01	.4021-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
40	13.107	1.9620	2115.0	.9444-01	.1155	.1155	.9000	.2293-02	.2803-02	1.578	14.49	565.4
40	13.107	2.1420	2116.0	.9704-01	.1188	.1188	.9000	.2356-02	.2885-02	1.610	17.70	570.4
40	13.107	2.3220	2117.0	.8241-01	.1008	.1008	.9000	.2001-02	.2448-02	1.373	17.78	567.5
40	13.107	2.4480	2118.0	.5989-01	.7286-01	.7286-01	.9000	.1454-02	.1769-02	1.024	9.096	549.7
40	13.170	.78000	2107.0	.7434-01	.9087-01	.9087-01	.9000	.1805-02	.2206-02	1.244	11.43	564.4
40	13.207	1.7820	2114.0	.1022	.1248	.1248	.9000	.2482-02	.3031-02	1.717	12.23	561.9
40	15.356	1.8370	2130.0	.6432-01	.7858-01	.7858-01	.9000	.1562-02	.1908-02	1.079	10.35	562.8
40	15.356	2.0460	2131.0	.8572-01	.1047	.1047	.9000	.2081-02	.2541-02	1.440	18.97	561.6
40	15.356	2.2500	2132.0	.9113-01	.1113	.1113	.9000	.2212-02	.2702-02	1.530	12.06	562.2
40	15.356	2.4530	2133.0	.9580-01	.1172	.1172	.9000	.2326-02	.2845-02	1.599	13.55	565.2
40	15.356	2.6630	2134.0	.8811-01	.1078	.1078	.9000	.2139-02	.2618-02	1.466	14.03	568.4
40	15.356	2.8160	2135.0	.6875-01	.8382-01	.8382-01	.9000	.1669-02	.2035-02	1.164	9.544	556.3

DATE 15 MAY 80

OH848 MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH848 60-0 LOWER MID FUSELAGE

(R4UF26)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 2.000 ELEVON = .0000
 BOFLAP = .0000 SPDERK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
69	2.003	7.980	40.01	2.011	433.8	1299.	94.54	.4516-01	2.013	3804.	.1289-02	.7608-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
69	.3498-01	.2869-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	I(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
69	13.107	1.9620	2115.0	.9152-01	.1119	.1119	.9000	.3201-02	.3914-02	2.284	20.77	585.3
69	13.107	2.1420	2116.0	.9347-01	.1146	.1146	.9000	.3270-02	.4009-02	2.301	24.99	594.9
69	13.107	2.3220	2117.0	.8038-01	.9845-01	.9845-01	.9000	.2812-02	.3444-02	1.989	25.46	591.1
69	13.107	2.4480	2118.0	.5989-01	.7274-01	.7274-01	.9000	.2095-02	.2545-02	1.540	13.58	563.7
69	13.170	.78000	2107.0	.7176-01	.8770-01	.8770-01	.9000	.2510-02	.3067-02	1.794	16.33	583.9
69	13.207	1.7820	2114.0	.1018	.1243	.1243	.9000	.3561-02	.4347-02	2.560	18.07	579.8
69	15.356	1.8370	2130.0	.6164-01	.7532-01	.7532-01	.9000	.2156-02	.2635-02	1.542	14.65	583.5
69	15.356	2.0460	2131.0	.8417-01	.1028	.1028	.9000	.2944-02	.3596-02	2.110	15.90	582.0
69	15.356	2.2500	2132.0	.8790-01	.1074	.1074	.9000	.3075-02	.3755-02	2.204	17.20	582.0
69	15.356	2.4530	2133.0	.9252-01	.1132	.1132	.9000	.3236-02	.3960-02	2.300	19.28	589.0
69	15.356	2.6630	2134.0	.8535-01	.1045	.1045	.9000	.2986-02	.3657-02	2.113	19.99	591.0
69	15.356	2.8160	2135.0	.6590-01	.8027-01	.8027-01	.9000	.2305-02	.2808-02	1.672	13.59	573.5

DATE 15 MAY 80

OH848 MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH848 60-0 LOWER MID FUSELAGE

(R4UF27)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
28	.5063	7.900	40.02	4.000	100.5	1248.	92.54	.1116-01	.4878	3726.	.3256-03	.7447-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
28	.1710-01	.5686-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	OTWDT DEG. R /SEC	TW DEG. R
28	13.107	1.9620	2115.0	.9114-01	.1111	.1111	.9000	.1558-02	.1900-02	1.081	9.989	553.7
28	13.107	2.1420	2116.0	.9235-01	.1127	.1127	.9000	.1579-02	.1928-02	1.089	12.04	558.0
28	13.107	2.3220	2117.0	.7632-01	.9311-01	.9311-01	.9000	.1305-02	.1592-02	.9027	11.76	555.9
28	13.107	2.4480	2118.0	.5421-01	.6589-01	.6589-01	.9000	.9269-03	.1127-02	.6522	5.812	544.8
28	13.170	.78000	2107.0	.7457-01	.9091-01	.9091-01	.9000	.1275-02	.1554-02	.8853	8.179	553.4
28	13.207	1.7820	2114.0	.9562-01	.1165	.1165	.9000	.1635-02	.1992-02	1.138	8.149	551.5
28	15.356	1.8370	2130.0	.6375-01	.7770-01	.7770-01	.9000	.1090-02	.1329-02	.7575	7.365	552.8
28	15.356	2.0460	2131.0	.8409-01	.1025	.1025	.9000	.1438-02	.1752-02	1.000	7.654	551.9
28	15.356	2.2500	2132.0	.8853-01	.1079	.1079	.9000	.1514-02	.1844-02	1.054	8.359	551.2
28	15.356	2.4530	2133.0	.9276-01	.1131	.1131	.9000	.1586-02	.1934-02	1.100	9.381	553.9
28	15.356	2.6630	2134.0	.8332-01	.1016	.1016	.9000	.1425-02	.1738-02	.9862	9.498	555.4
28	15.356	2.8160	2135.0	.6133-01	.7465-01	.7465-01	.9000	.1049-02	.1276-02	.7332	6.036	548.5

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF27)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
43	1.018	7.940	40.80	4.023	206.3	1254.	92.12	.2219-01	.9794	3736.	.6502-03	.7413-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
43	.2425-01	.4025-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
43	13.107	1.9620	2115.0	.8844-01	.1081	.1081	.9000	.2145-02	.2622-02	1.477	13.57	565.0
43	13.107	2.1420	2116.0	.8953-01	.1097	.1097	.9000	.2171-02	.2659-02	1.482	16.29	571.0
43	13.107	2.3220	2117.0	.7451-01	.9118-01	.9118-01	.9000	.1807-02	.2211-02	1.239	16.05	567.8
43	13.107	2.4480	2118.0	.5355-01	.6515-01	.6515-01	.9000	.1299-02	.1580-02	.9144	8.126	549.5
43	13.170	.78000	2107.0	.7234-01	.8843-01	.8843-01	.9000	.1754-02	.2144-02	1.208	11.10	564.8
43	13.207	1.7820	2114.0	.9903-01	.1209	.1209	.9000	.2401-02	.2933-02	1.662	11.94	561.6
43	15.356	1.8370	2130.0	.6096-01	.7447-01	.7447-01	.9000	.1478-02	.1806-02	1.021	9.802	562.7
43	15.356	2.0460	2131.0	.8214-01	.1003	.1003	.9000	.1992-02	.2432-02	1.379	10.50	561.5
43	15.356	2.2500	2132.0	.8621-01	.1053	.1053	.9000	.2091-02	.2553-02	1.446	11.40	562.0
43	15.356	2.4530	2133.0	.8912-01	.1090	.1090	.9000	.2161-02	.2643-02	1.487	12.61	565.5
43	15.356	2.6630	2134.0	.8019-01	.9812-01	.9812-01	.9000	.1945-02	.2379-02	1.335	12.78	567.3
43	15.356	2.8160	2135.0	.6115-01	.7453-01	.7453-01	.9000	.1483-02	.1807-02	1.035	8.491	555.6

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL
OH84B 60-0 LOWER MID FUSELAGE

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(R4UF27)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 4.000 ELEVON = .0000
 BOFLAP = .0000 SPOBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
65	1.997	7.980	40.03	4.032	434.4	1303.	94.84	.4522-01	2.016	3810.	.1287-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
65	.3502-01	.2873-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
65	13.107	1.9620	2115.0	.8678-01	.1061	.1061	.9000	.3039-02	.3714-02	2.178	19.79	586.2
65	13.107	2.1420	2116.0	.8748-01	.1072	.1072	.9000	.3064-02	.3755-02	2.168	23.55	594.9
65	13.107	2.3220	2117.0	.7375-01	.9026-01	.9026-01	.9000	.2583-02	.3161-02	1.840	23.56	590.4
65	13.107	2.4480	2118.0	.5430-01	.6593-01	.6593-01	.9000	.1902-02	.2309-02	1.405	12.39	564.1
65	13.170	.78000	2107.0	.7160-01	.8754-01	.8754-01	.9000	.2508-02	.3066-02	1.794	16.30	587.3
65	13.207	1.7820	2114.0	.9578-01	.1169	.1169	.9000	.3355-02	.4094-02	2.420	17.07	581.1
65	15.356	1.8370	2130.0	.5908-01	.7217-01	.7217-01	.9000	.2069-02	.2527-02	1.487	14.11	584.2
65	15.356	2.0460	2131.0	.8096-01	.9884-01	.9884-01	.9000	.2835-02	.3462-02	2.042	15.39	582.5
65	15.356	2.2500	2132.0	.8396-01	.1025	.1025	.9000	.2941-02	.3590-02	2.118	16.54	582.2
65	15.356	2.4530	2133.0	.8698-01	.1063	.1063	.9000	.3046-02	.3724-02	2.179	18.27	587.4
65	15.356	2.6630	2134.0	.7928-01	.9700-01	.9700-01	.9000	.2776-02	.3397-02	1.980	18.74	589.7
65	15.356	2.8160	2135.0	.5976-01	.7274-01	.7274-01	.9000	.2093-02	.2547-02	1.528	12.42	572.8

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF28)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
31	.5055	7.900	40.08	9.971	100.7	1251.	92.77	.1119-01	.4887	3730.	.3255-03	.7465-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) = .0175
31	.1712-01	.5688-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R=	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TH DEG. R
31	13.107	1.9620	2115.0	.7641-01	.9307-01	.9307-01	.9000	.1308-02	.1594-02	.9145	8.456	551.7
31	13.107	2.1420	2116.0	.7508-01	.9154-01	.9154-01	.9000	.1286-02	.1567-02	.8945	9.909	554.9
31	13.107	2.3220	2117.0	.5864-01	.7142-01	.7142-01	.9000	.1004-02	.1223-02	.7013	9.153	552.2
31	13.107	2.4480	2118.0	.3970-01	.4820-01	.4820-01	.9000	.6798-03	.8254-03	.4818	4.299	541.8
31	13.170	.78000	2107.0	.7230-01	.8813-01	.8813-01	.9000	.1238-02	.1509-02	.8619	7.959	554.4
31	13.207	1.7820	2114.0	.8876-01	.1081	.1081	.9000	.1520-02	.1851-02	1.063	7.613	551.1
31	15.356	1.8370	2130.0	.5698-01	.6941-01	.6941-01	.9000	.9757-03	.1189-02	.6816	6.575	552.1
31	15.356	2.0460	2131.0	.7411-01	.9025-01	.9025-01	.9000	.1269-02	.1545-02	.8877	6.795	551.1
31	15.356	2.2500	2132.0	.7615-01	.9273-01	.9273-01	.9000	.1304-02	.1588-02	.9121	7.231	551.2
31	15.356	2.4530	2133.0	.7614-01	.9277-01	.9277-01	.9000	.1304-02	.1589-02	.9093	7.756	553.2
31	15.356	2.6630	2134.0	.6430-01	.7837-01	.7837-01	.9000	.1101-02	.1342-02	.7674	7.397	553.7
31	15.356	2.8160	2135.0	.4511-01	.5485-01	.5485-01	.9000	.7725-03	.9391-03	.5444	4.487	546.0

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF28)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
46	1.011	7.940	40.01	10.10	207.3	1264.	92.86	.2230-01	.9842	3751.	.6482-03	.7472-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF (R) =.0175
46	.2434-01	.4035-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	H(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWOT DEG. R /SEC	TW DEG. R
46	13.107	1.9620	2115.0	.7448-01	.9080-01	.9080-01	.9000	.1813-02	.2210-02	1.275	11.74	560.4
46	13.107	2.1420	2116.0	.7230-01	.8826-01	.8826-01	.9000	.1760-02	.2148-02	1.230	13.56	564.9
46	13.107	2.3220	2117.0	.5685-01	.6932-01	.6932-01	.9000	.1384-02	.1687-02	.9723	12.63	561.0
46	13.107	2.4480	2118.0	.3925-01	.4764-01	.4764-01	.9000	.9555-03	.1160-02	.6855	6.101	546.3
46	13.170	.78000	2107.0	.7008-01	.8550-01	.8550-01	.9000	.1706-02	.2081-02	1.195	10.99	562.9
46	13.207	1.7820	2114.0	.8314-01	.1013	.1013	.9000	.2024-02	.2465-02	1.428	10.19	558.2
46	15.356	1.8370	2130.0	.5410-01	.6595-01	.6595-01	.9000	.1317-02	.1605-02	.9262	8.898	560.3
46	15.356	2.0460	2131.0	.7170-01	.8736-01	.8736-01	.9000	.1745-02	.2127-02	1.230	9.378	558.9
46	15.356	2.2500	2132.0	.7291-01	.8884-01	.8884-01	.9000	.1775-02	.2163-02	1.250	9.874	559.1
46	15.356	2.4530	2133.0	.7278-01	.8876-01	.8876-01	.9000	.1772-02	.2161-02	1.244	10.56	561.7
46	15.356	2.6630	2134.0	.6243-01	.7614-01	.7614-01	.9000	.1520-02	.1853-02	1.066	10.23	562.1
46	15.356	2.8160	2135.0	.4369-01	.5312-01	.5312-01	.9000	.1063-02	.1293-02	.7566	6.217	552.2

DATE 15 MAY 80

OH84B MODEL 60-0 AT ARC 3.5 FOOT TUNNEL

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OH84B 60-0 LOWER MID FUSELAGE

(R4UF28)

LWR MID FUSE

PARAMETRIC DATA

MACH = 8.000 ALPHA = 40.00 BETA = 10.00 ELEVON = .0000
 BDFLAP = .0000 SPDBRK = .0000

TEST CONDITIONS

RUN NUMBER	RN/L /FT X10 6	MACH	ALPHA DEG.	BETA DEG.	PO PSIA	TO DEG. R	T DEG. R	P PSIA	Q PSI	V FT/SEC	RHO SLUGS /FT3	MU LB-SEC /FT2
59	1.995	7.980	40.01	10.00	433.9	1303.	94.84	.4517-01	2.014	3810.	.1286-02	.7631-07

RUN NUMBER	HREF BTU/ R FT2SEC	STN NO REF(R) =.0175
59	.3500-01	.2874-01

TEST DATA

RUN NUMBER	XO MS	YO MS	T/C NO	H/HREF R=1.0	H/HREF R=0.9	H/HREF R= TAW/TO	TAW/TO	M(TO) BTU/R FT2SEC	H(TAW) BTU/R FT2SEC	QDOT BTU/ FT2SEC	DTWDT DEG. R /SEC	TW DEG. R
59	13.107	1.9620	2115.0	.7333-01	.8935-01	.8935-01	.9000	.2567-02	.3127-02	1.865	17.03	576.2
59	13.107	2.1420	2116.0	.7002-01	.8549-01	.8549-01	.9000	.2451-02	.2992-02	1.764	19.27	582.9
59	13.107	2.3220	2117.0	.5634-01	.6867-01	.6867-01	.9000	.1972-02	.2404-02	1.431	18.45	577.0
59	13.107	2.4480	2118.0	.3985-01	.4823-01	.4823-01	.9000	.1395-02	.1688-02	1.045	9.266	553.5
59	13.170	.78000	2107.0	.6912-01	.8436-01	.8436-01	.9000	.2419-02	.2953-02	1.745	15.90	581.5
59	13.207	1.7820	2114.0	.8570-01	.1043	.1043	.9000	.3000-02	.3652-02	2.187	15.48	573.6
59	15.356	1.8370	2130.0	.5356-01	.6528-01	.6528-01	.9000	.1875-02	.2285-02	1.361	12.96	576.9
59	15.356	2.0460	2131.0	.7107-01	.8657-01	.8657-01	.9000	.2488-02	.3030-02	1.810	13.69	575.0
59	15.356	2.2500	2132.0	.7304-01	.8897-01	.8897-01	.9000	.2556-02	.3114-02	1.860	14.57	575.3
59	15.356	2.4530	2133.0	.7235-01	.8824-01	.8824-01	.9000	.2532-02	.3088-02	1.833	15.43	579.0
59	15.356	2.6630	2134.0	.6081-01	.7417-01	.7417-01	.9000	.2128-02	.2596-02	1.540	14.65	579.3
59	15.356	2.8160	2135.0	.4564-01	.5538-01	.5538-01	.9000	.1597-02	.1938-02	1.183	9.678	561.8